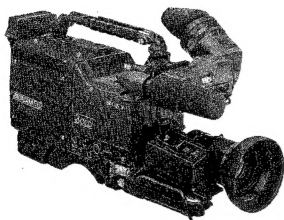


SONY

VTR IN CAMERA

BVW-400P



MAINTENANCE MANUAL

Volume 2 1st Edition (Revised 5)

Serial No. 40001 and Higher

X-RAY RADIATION WARNING

Be sure that parts replacement in the high voltage block and adjustments made to the high voltage circuits are carried out precisely in accordance with the procedures given in this manual.

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SERVO

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SYSTEM CONTROL

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TIME CODE

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INTERFACE

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POWER

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SENSOR

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OTHERS

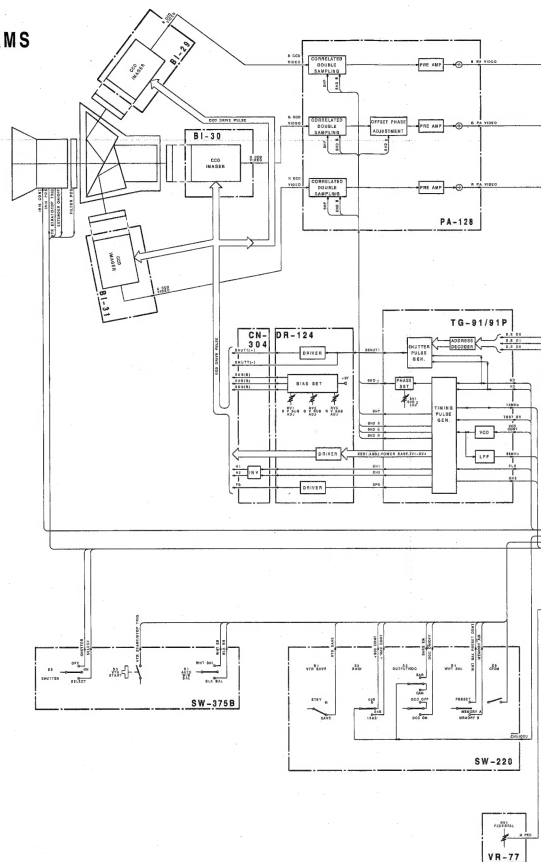
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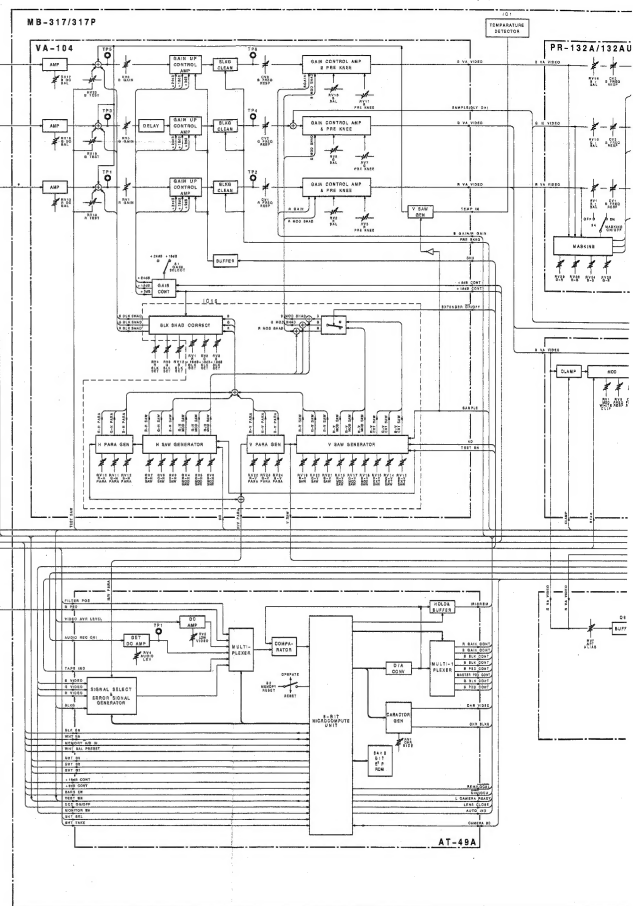
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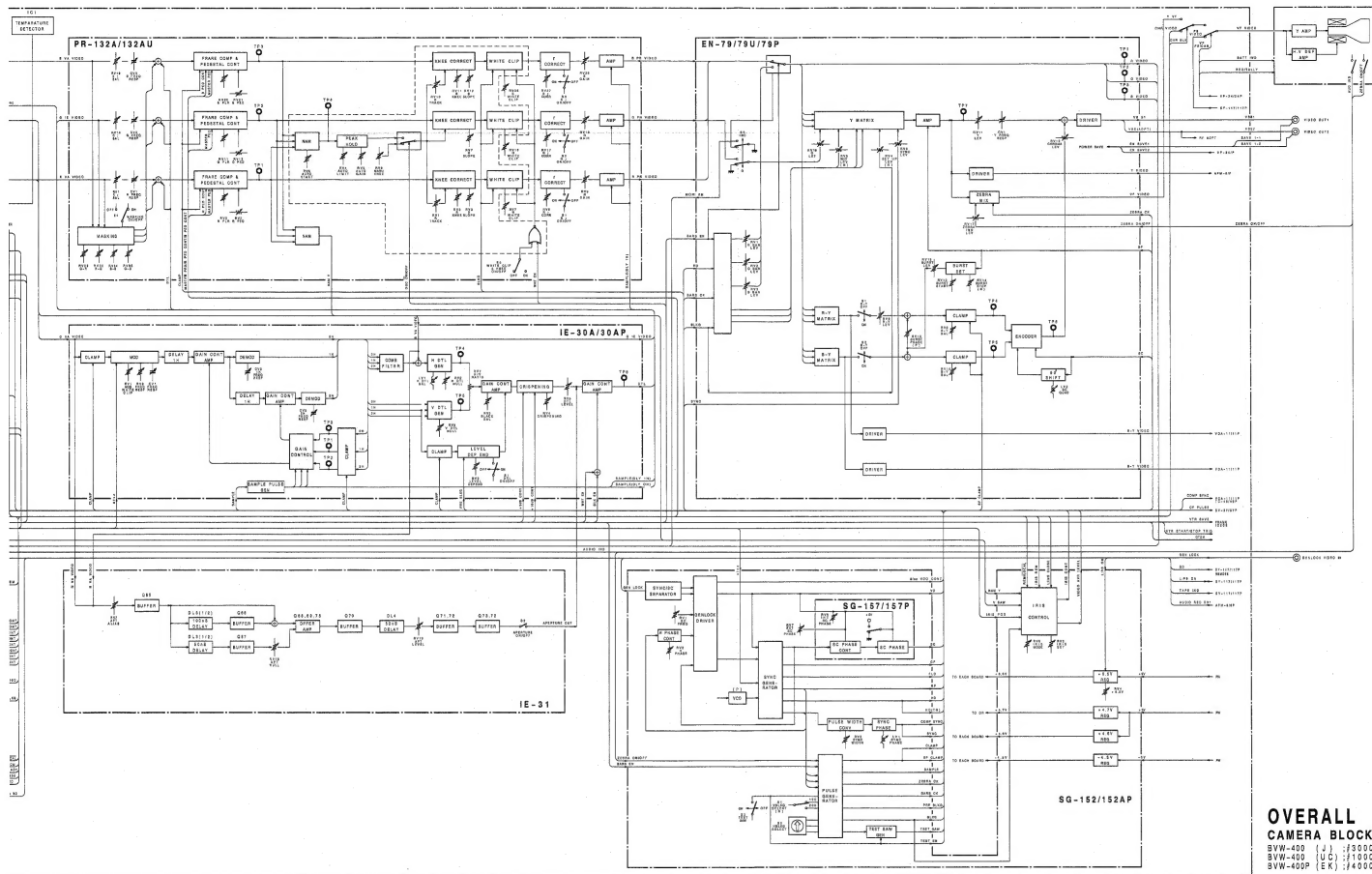
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SECTION 9
BLOCK DIAGRAMS
OVERALL BLOCK DIAGRAM(CAMERA)



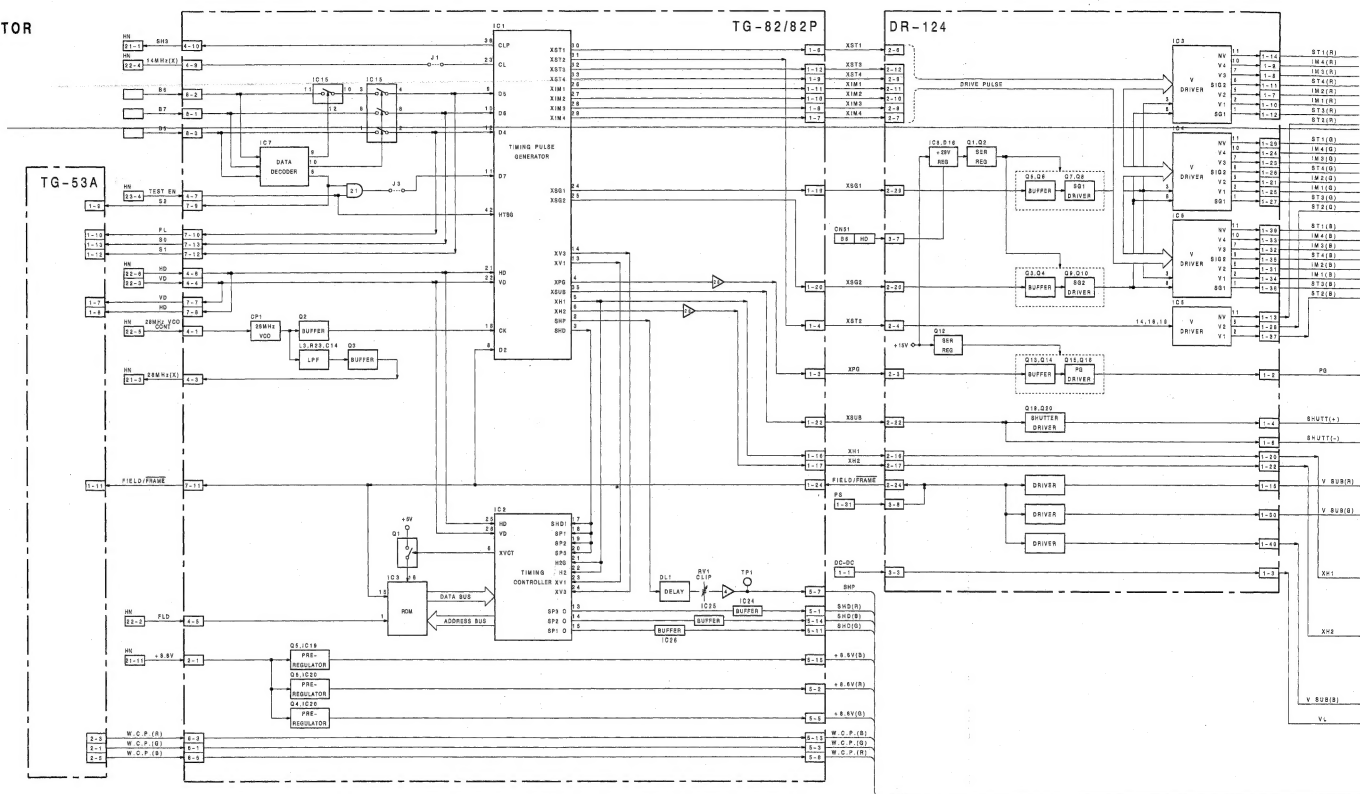
OVERALL(CAMERA) OVERALL(CAMERA)





CCD DRIVER
 CCD BIAS
 CCD PREAMP
 TIMING GENERATOR

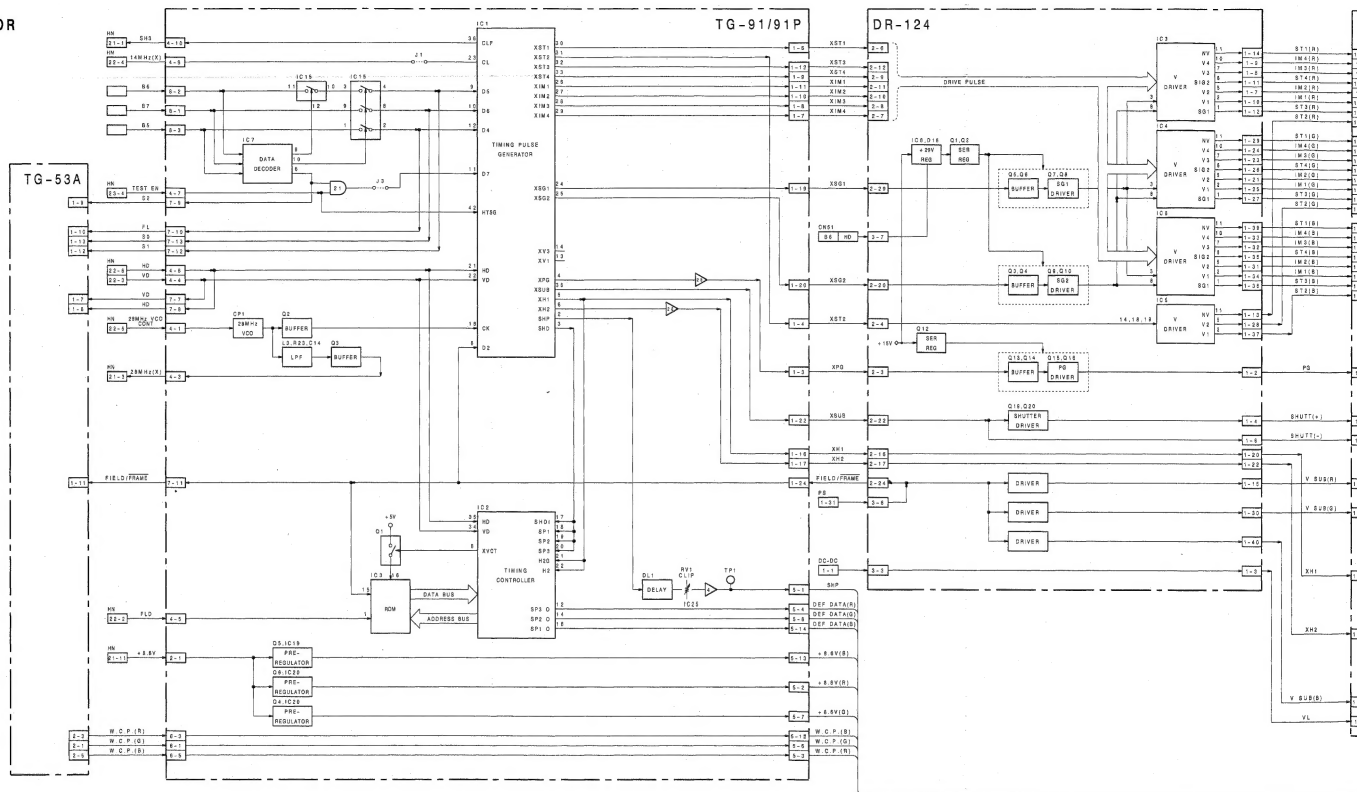
S/N;40001 through 40022





CCD DRIVER
 CCD BIAS
 CCD PREAMP
 TIMING GENERATOR

S/N:40023 and higher



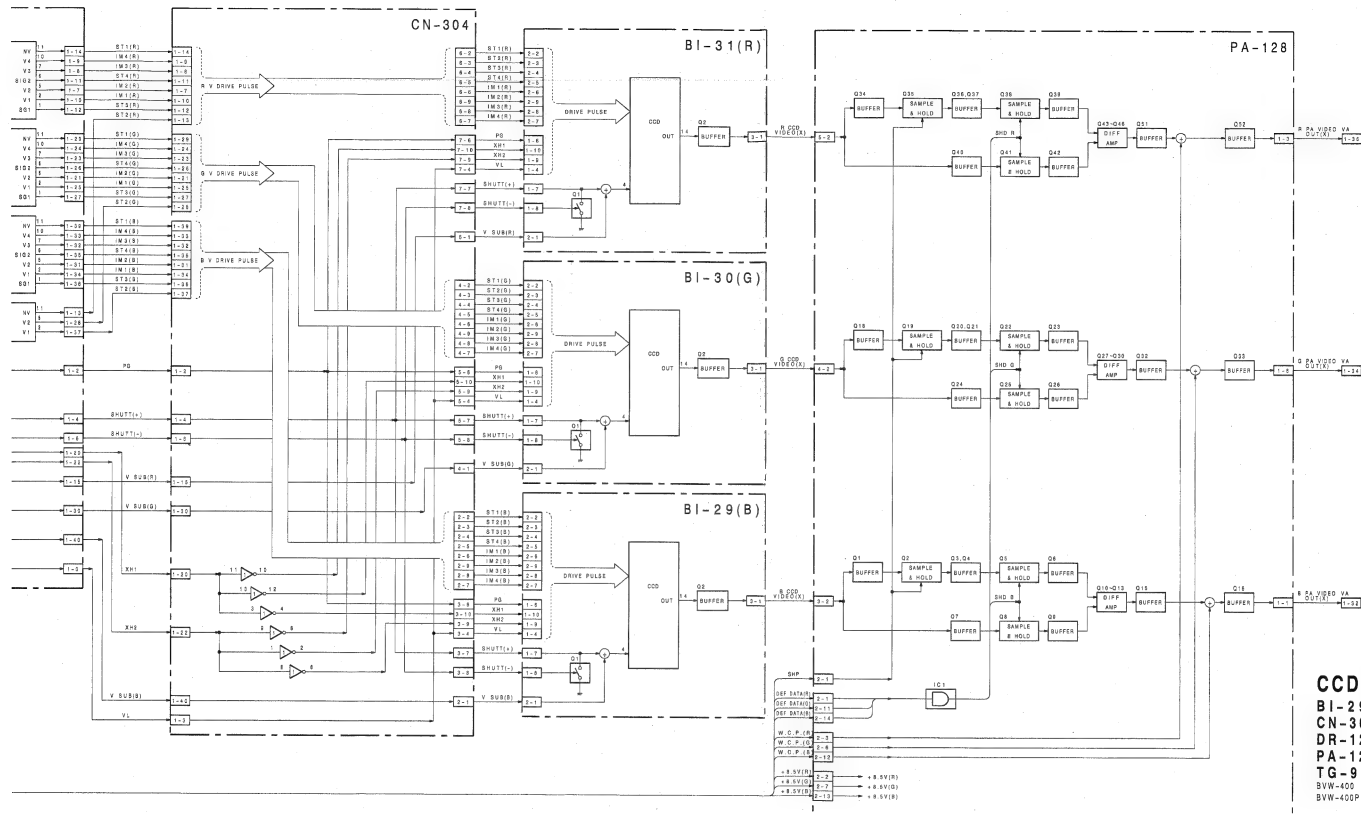
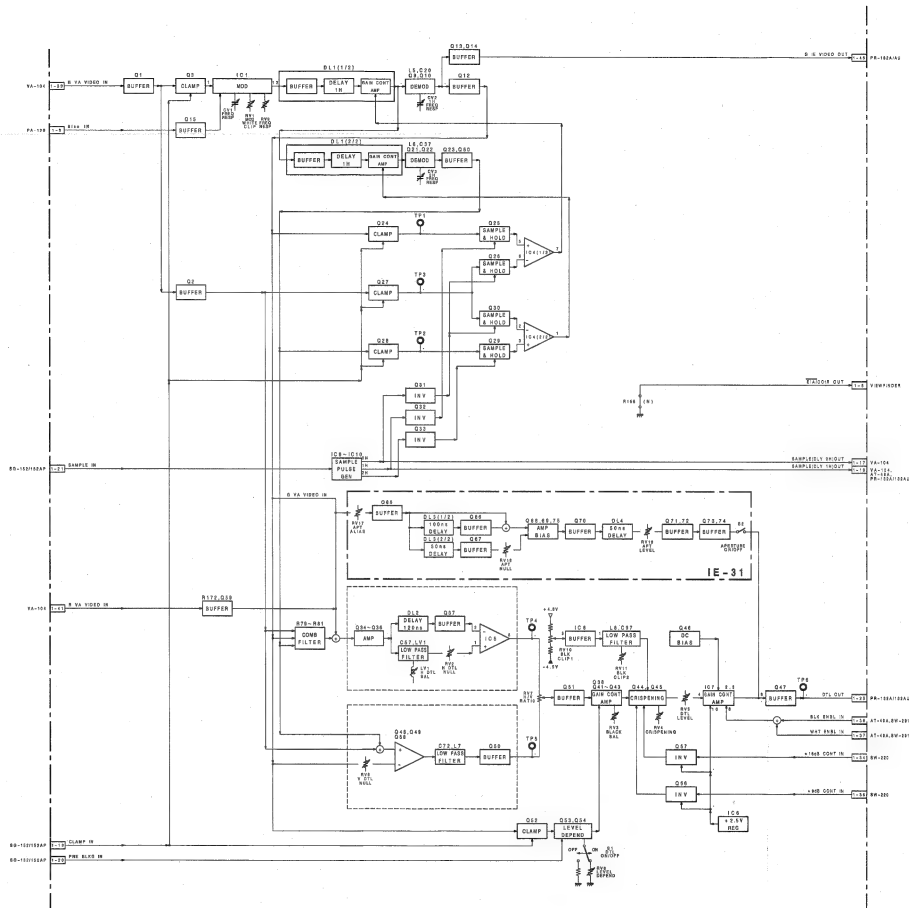
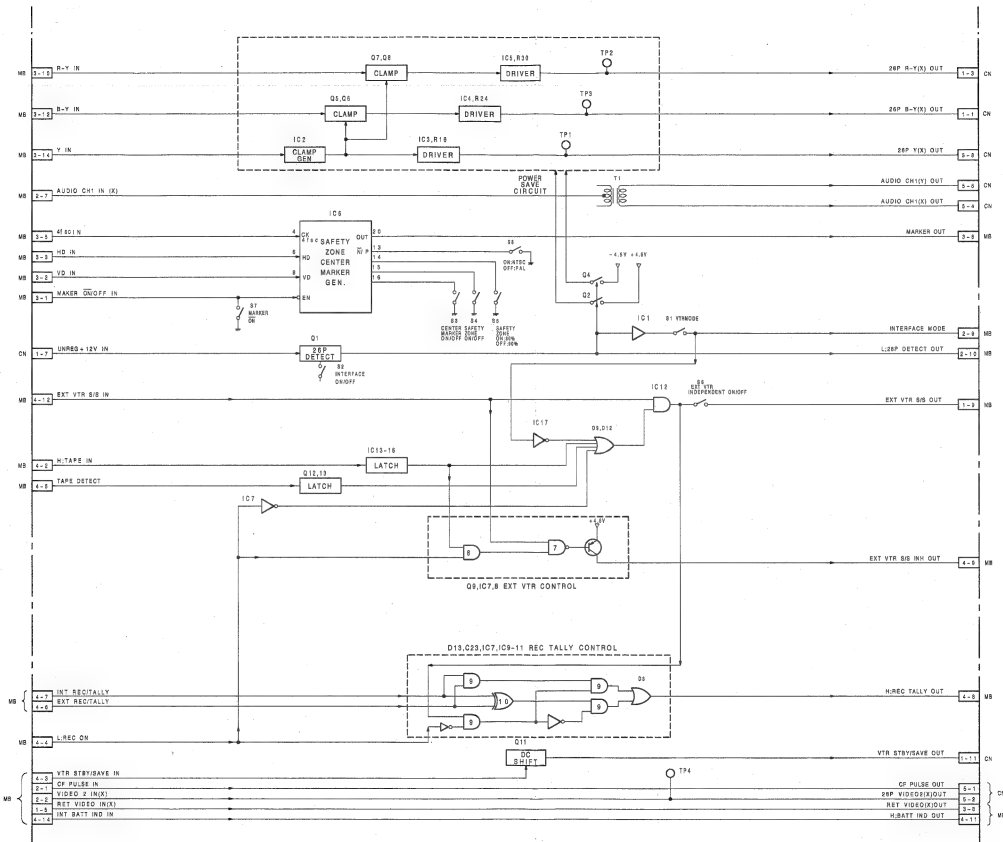


IMAGE ENHANCER



IE-30A/30AP
IE-31
CAMERA BLOCK
BVW-400
BVW-400P

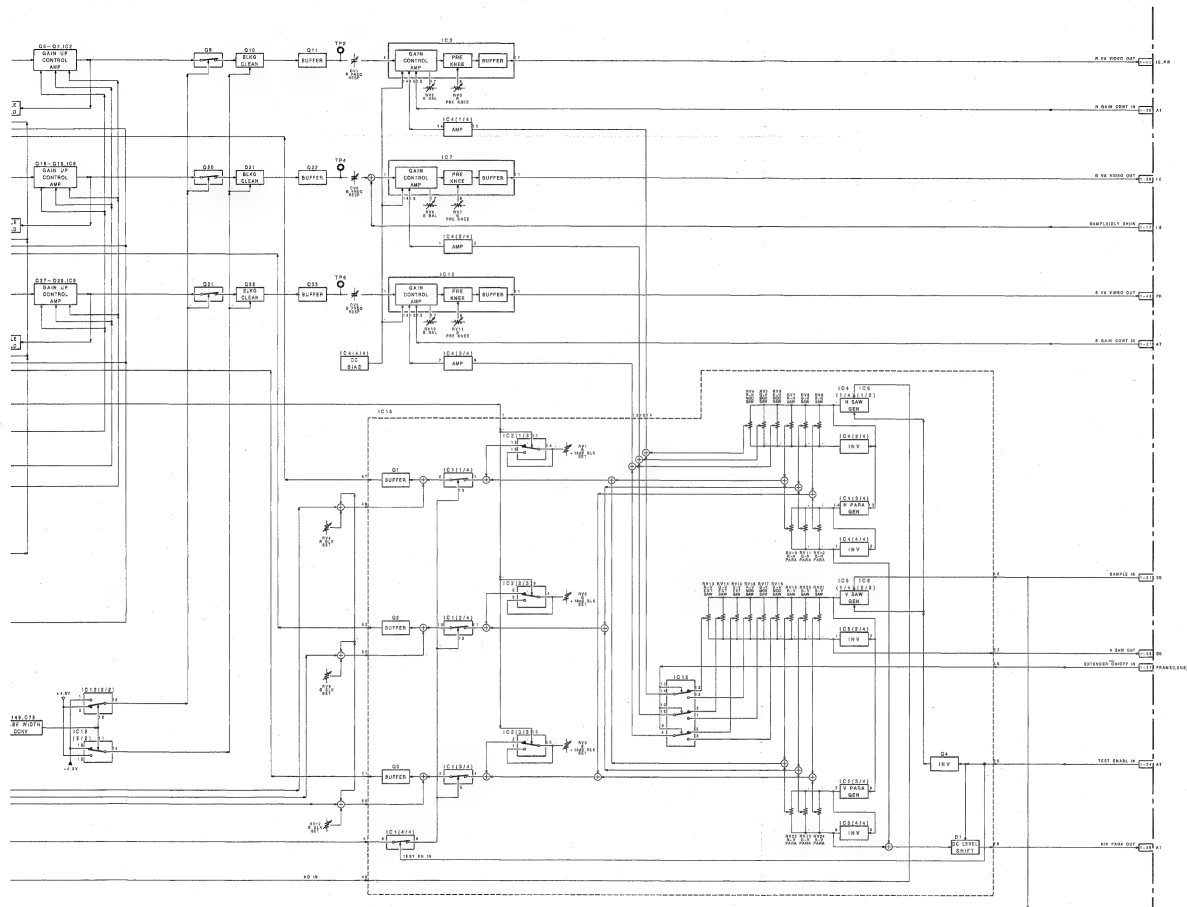
INTERFACE



IF-298 BLOCK

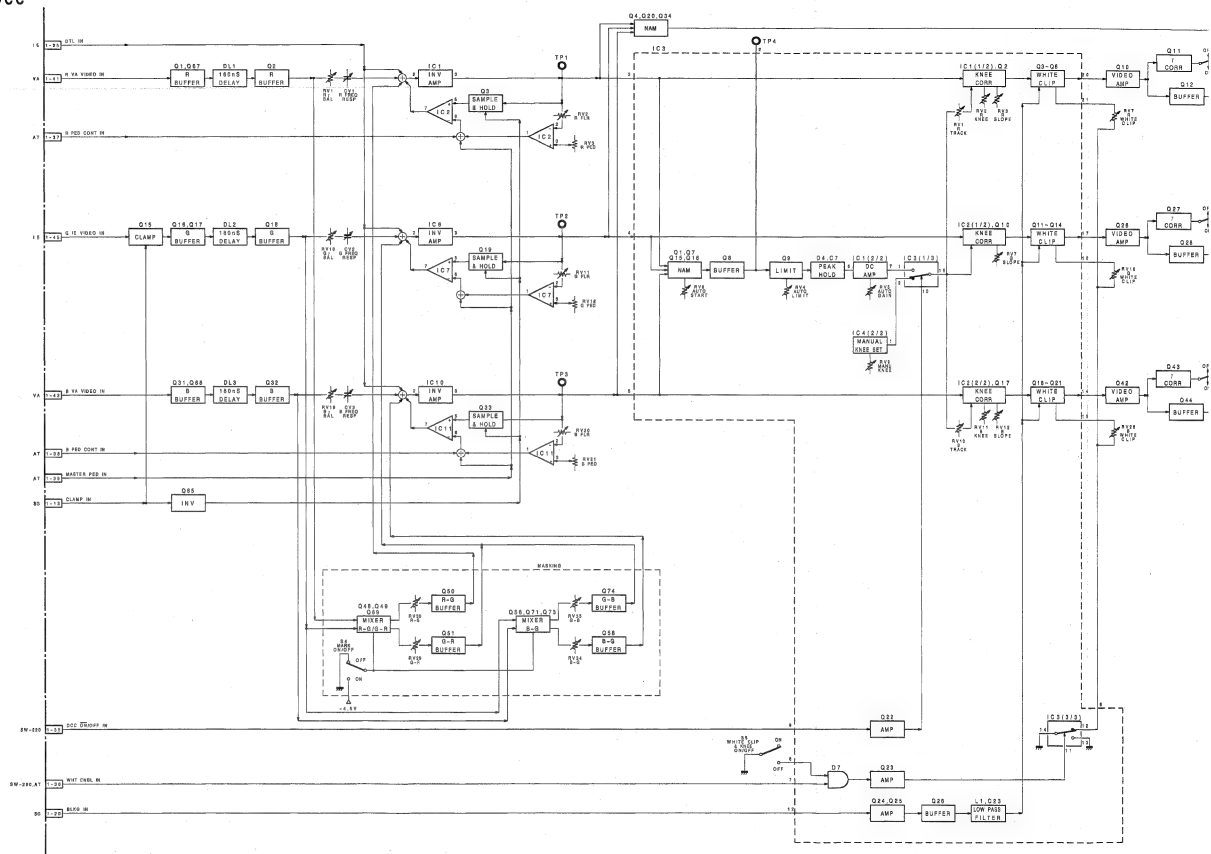
BVW-400
BVW-400P

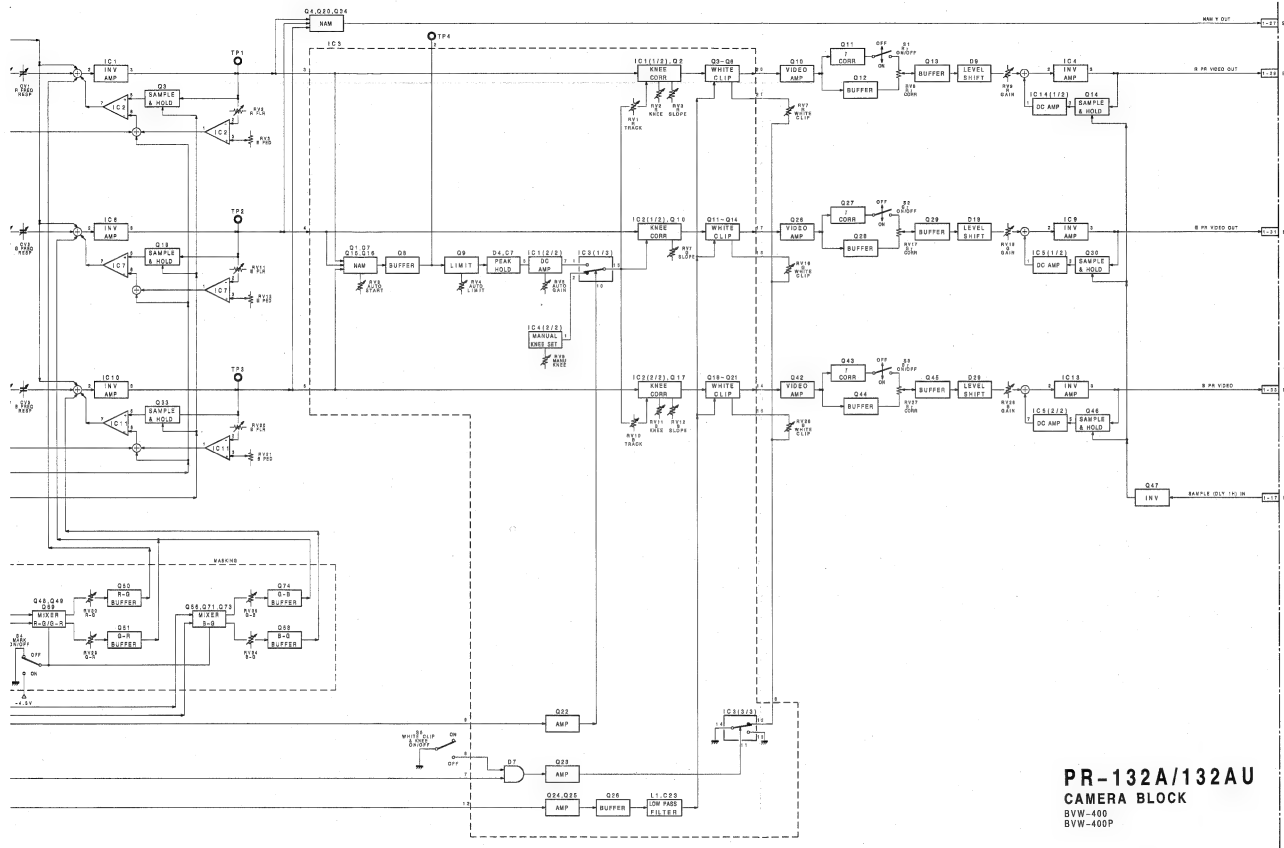




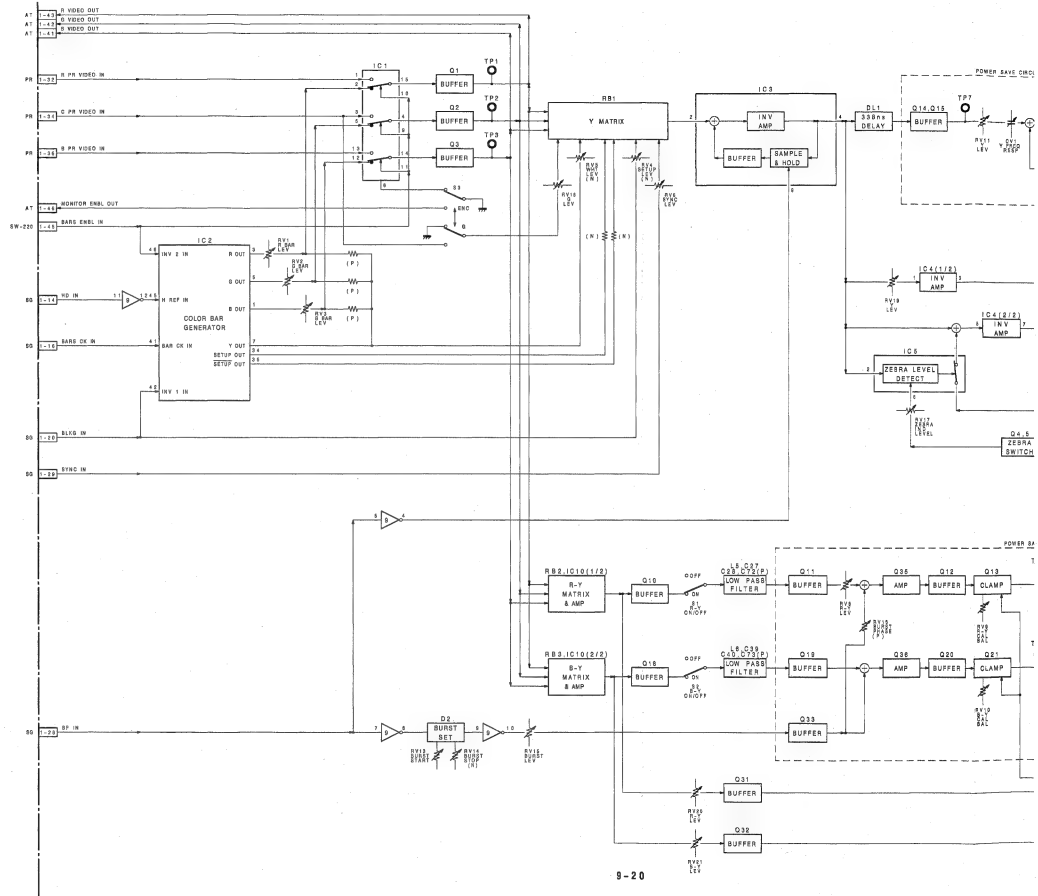
VA-104
CAMERA BLOCK
 BVW-400P

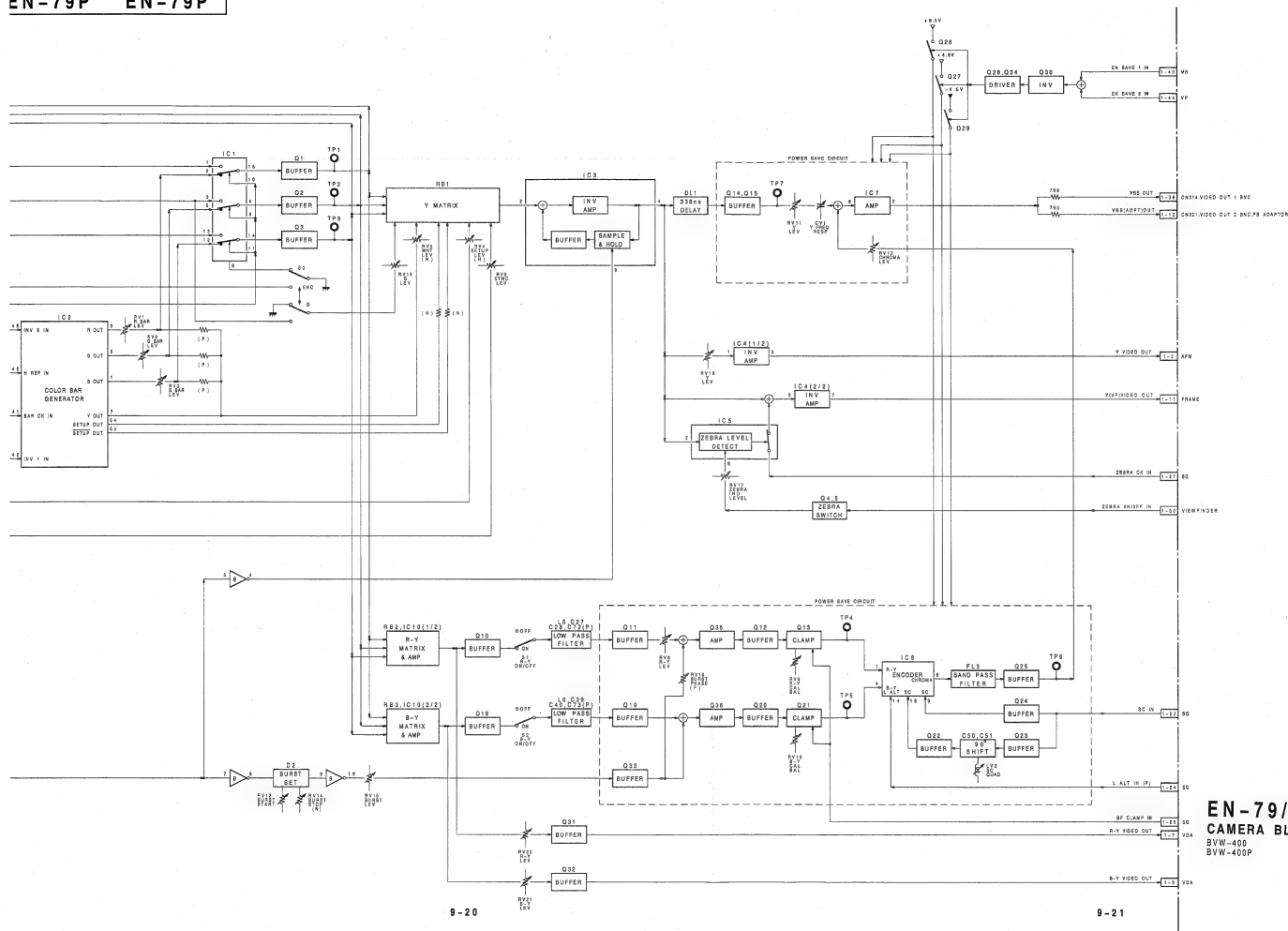
GAMMA, MASKING, KNEE, SLPE, W CLIP, DCC





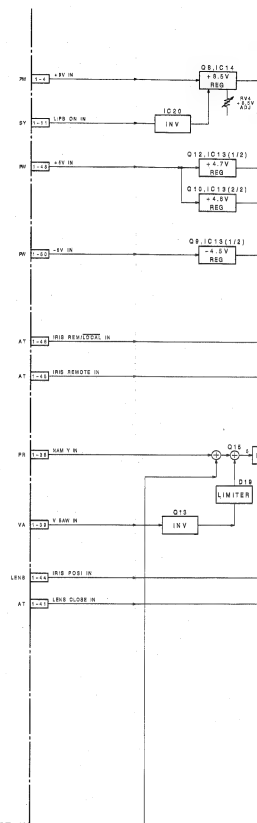
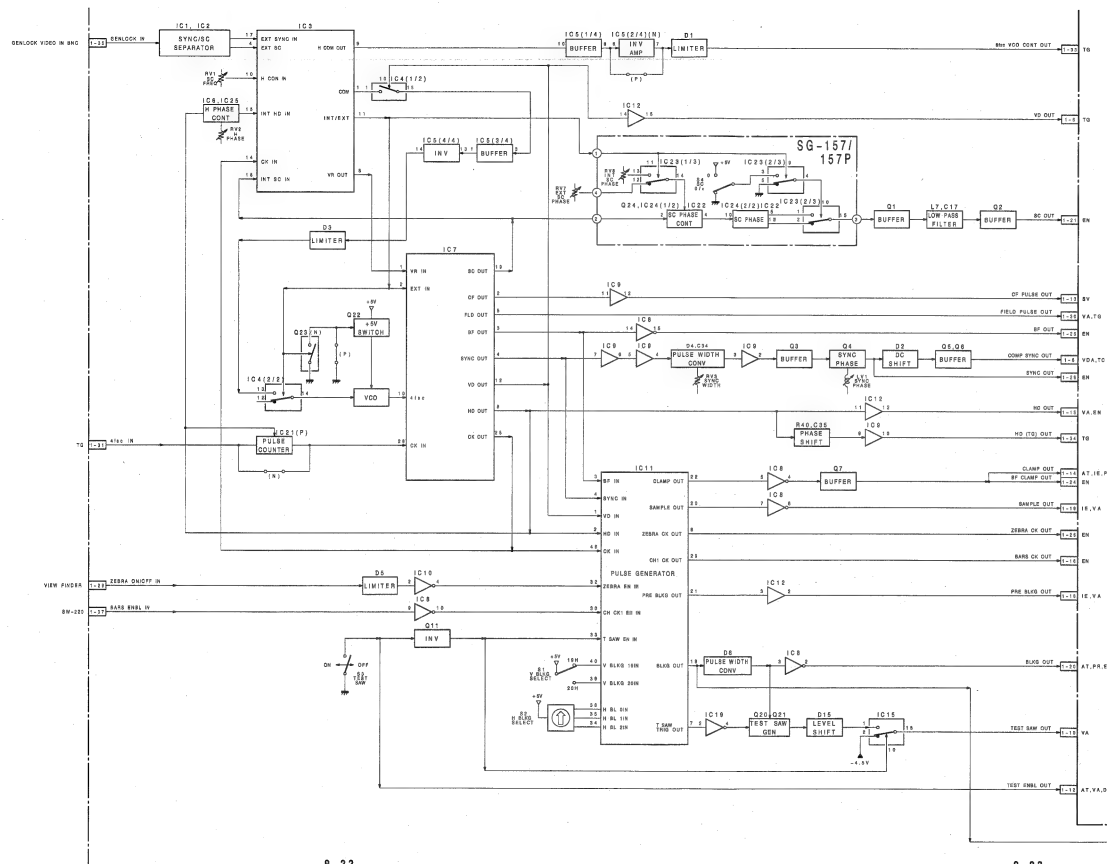
PR-132A/132AU
CAMERA BLOCK
BVW-400
BVW-400P

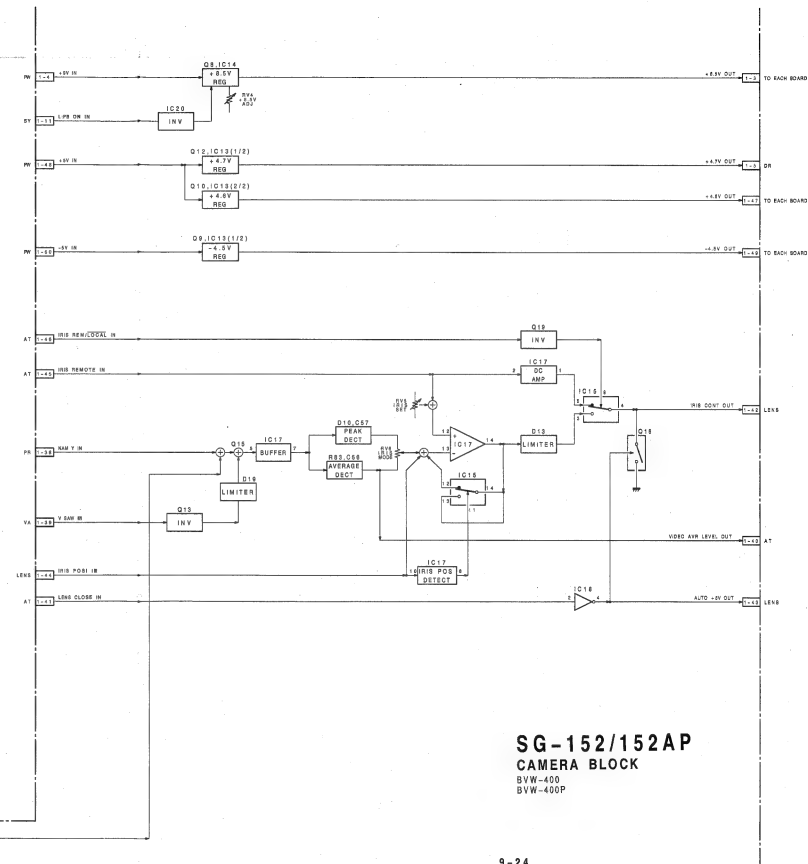
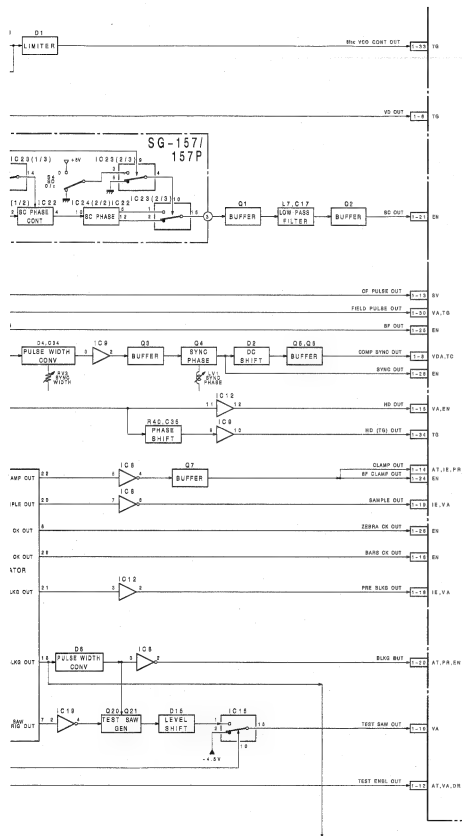




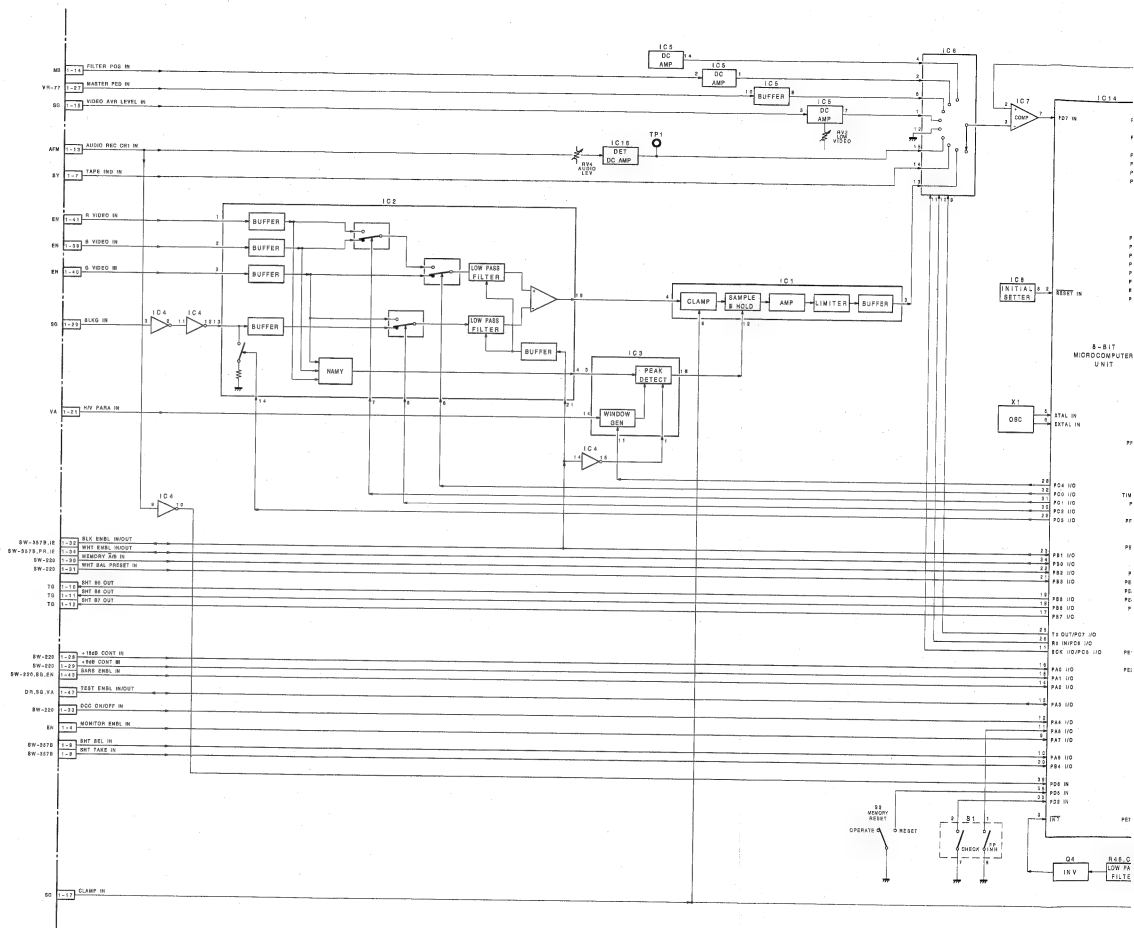
EN-79/79U/79P
CAMERA BLOCK
BVW-400
BVW-400P

SYNC. GEN

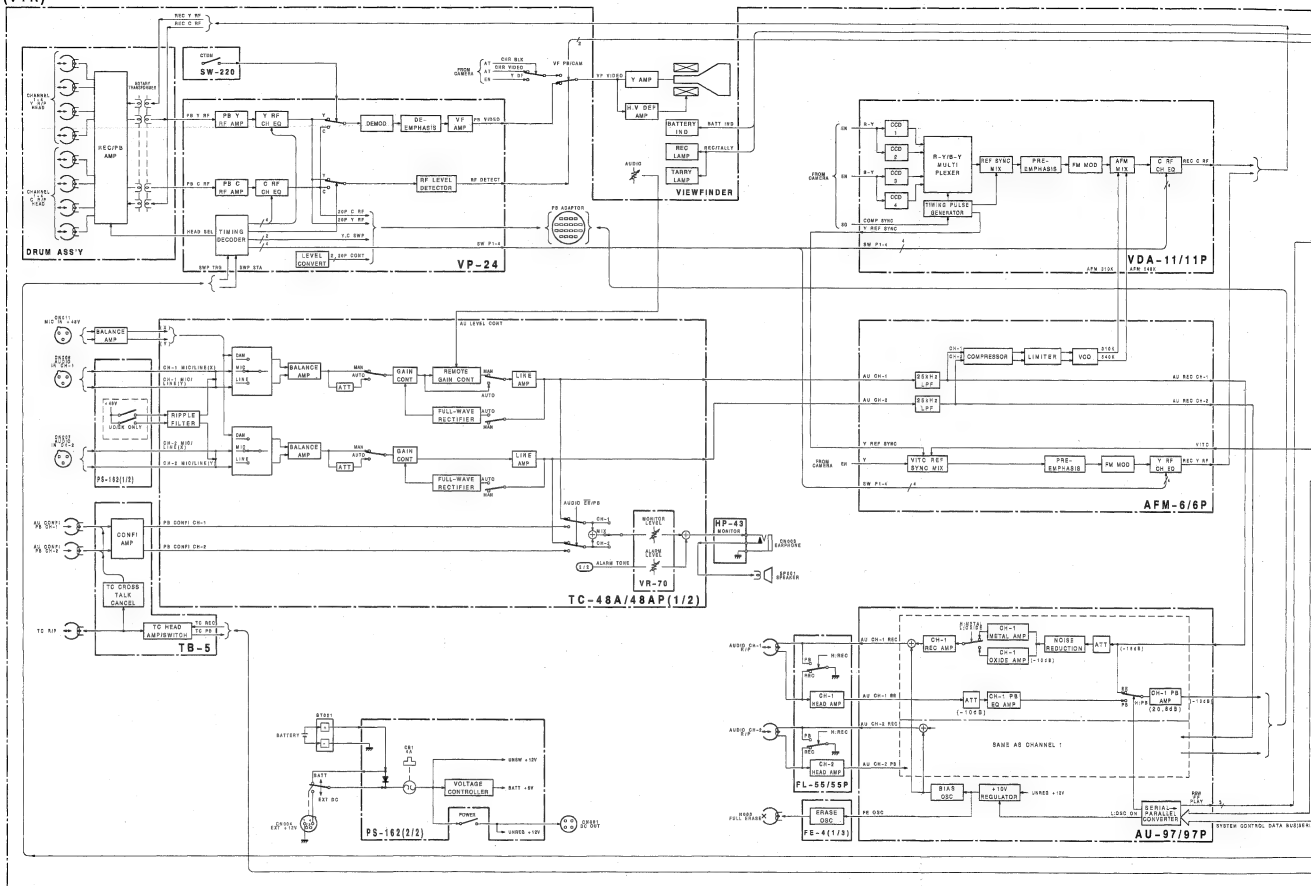


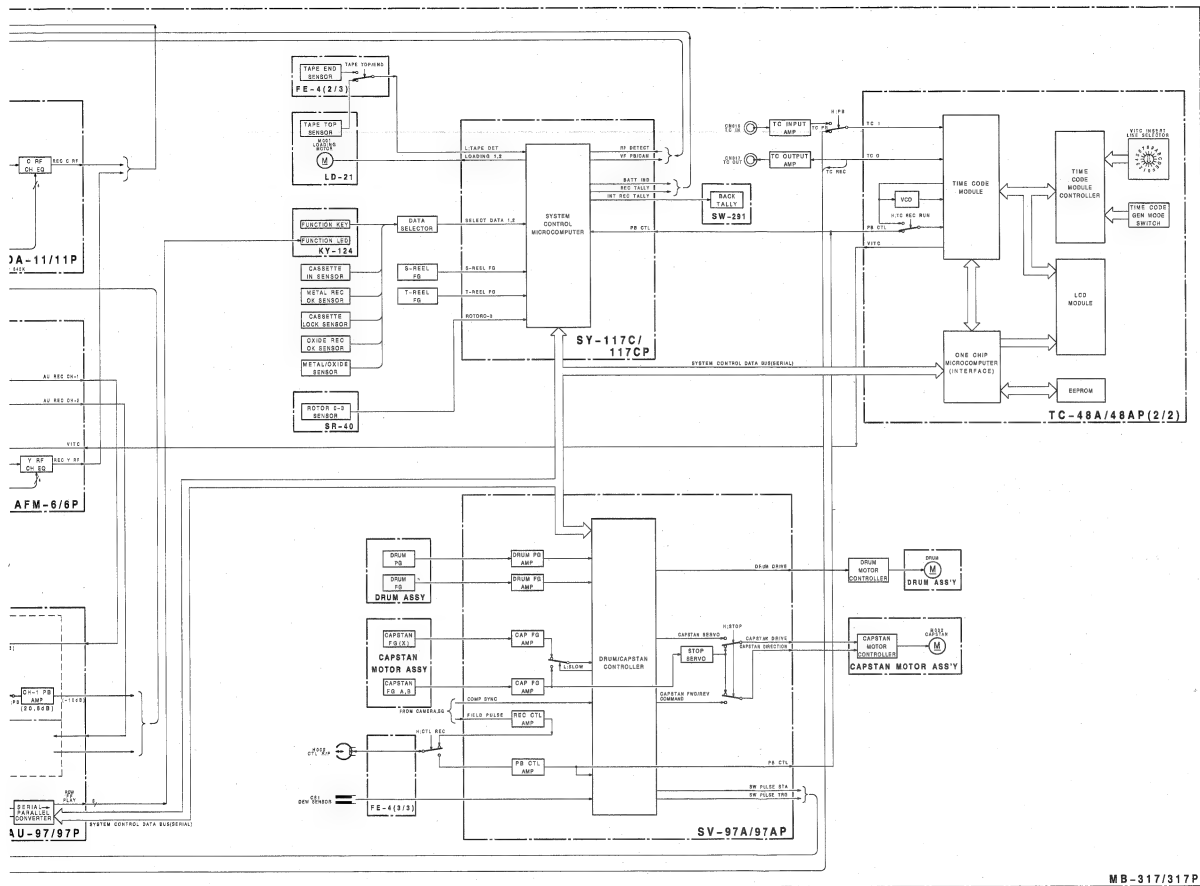


AUTO W/B,CHARA GEN,SYS-CON





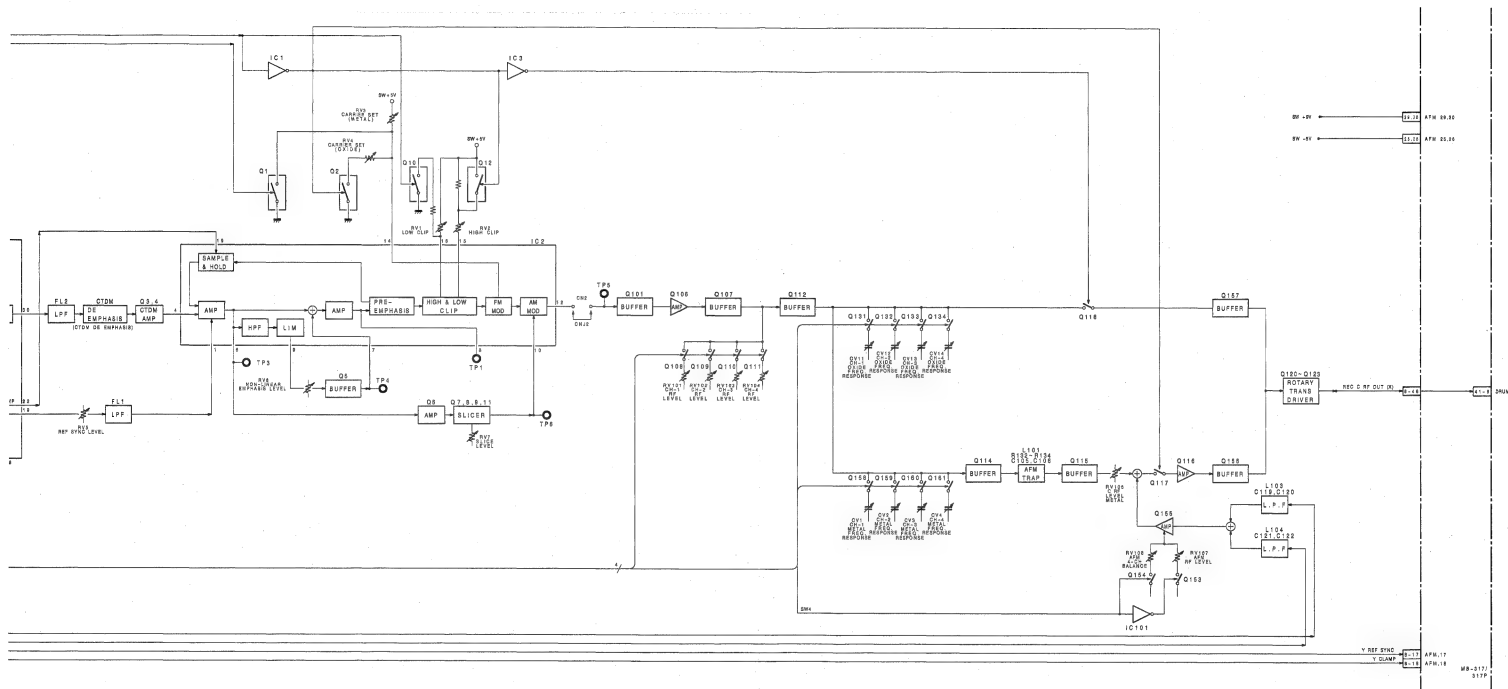




OVERALL
VTR BLOCK
SVW-400
SVW-400P

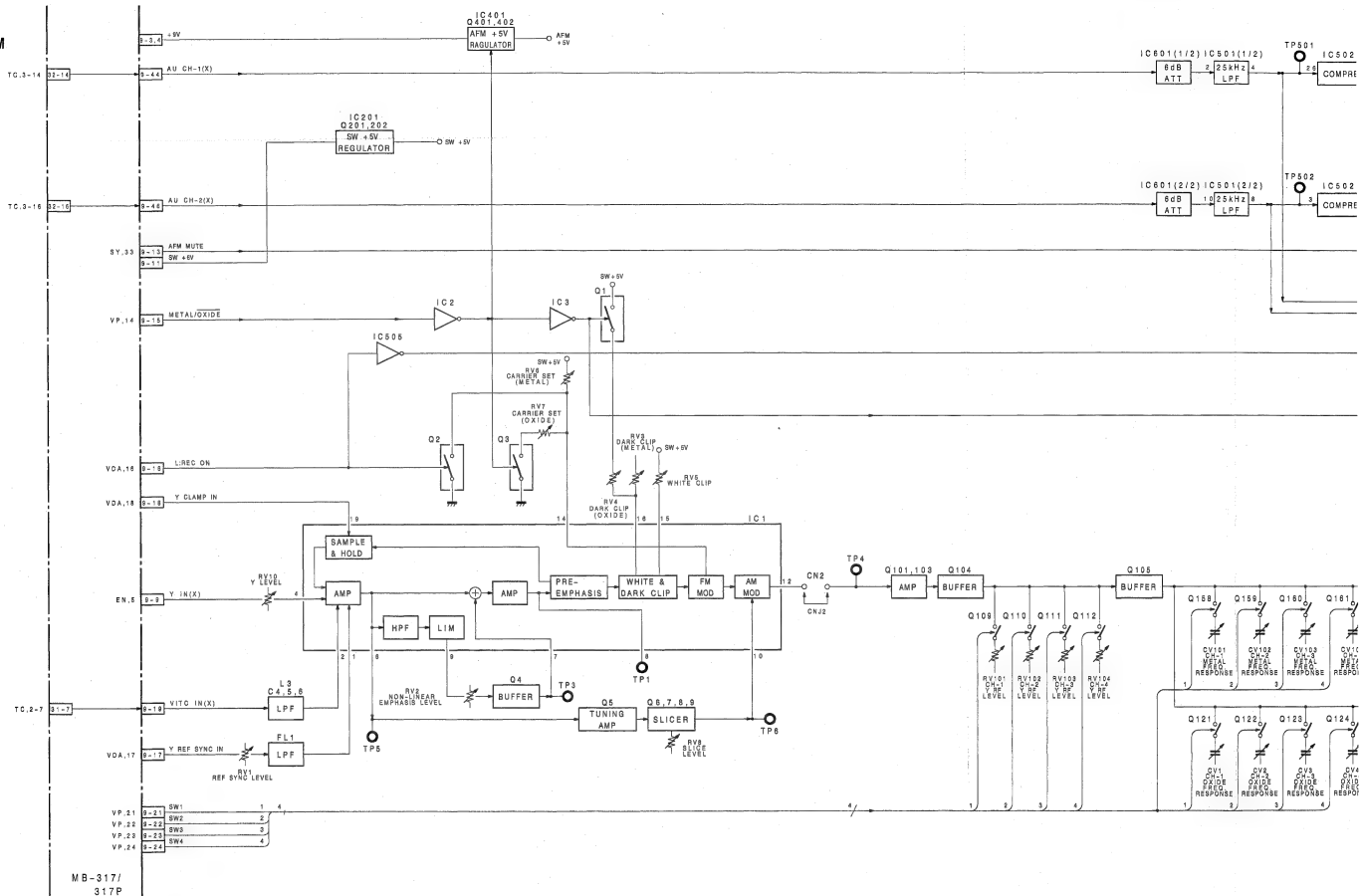
MB-317/317P



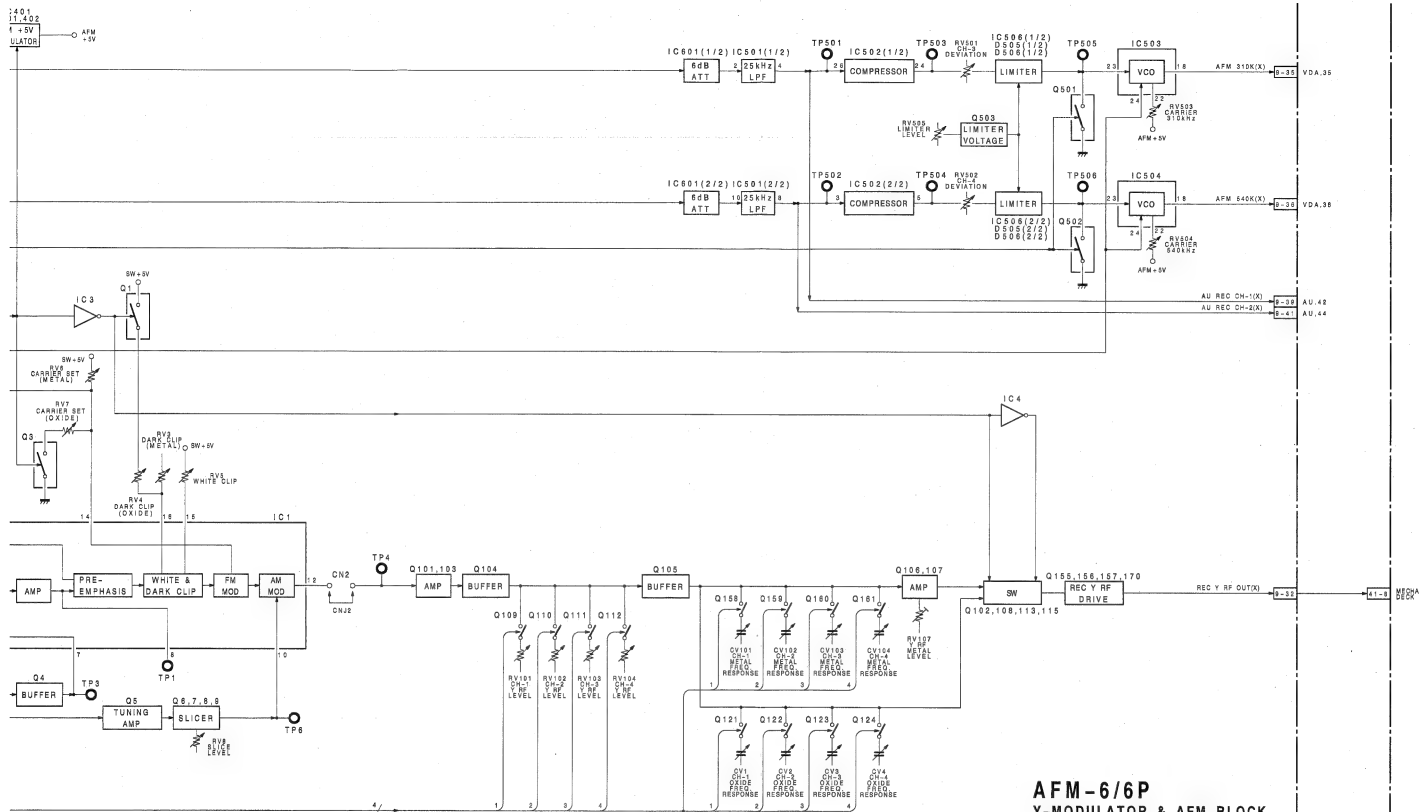


VDA-11/11P
VIDEO BLOCK
 BW-400
 BVW-400P

Y-MODULATOR,AFM

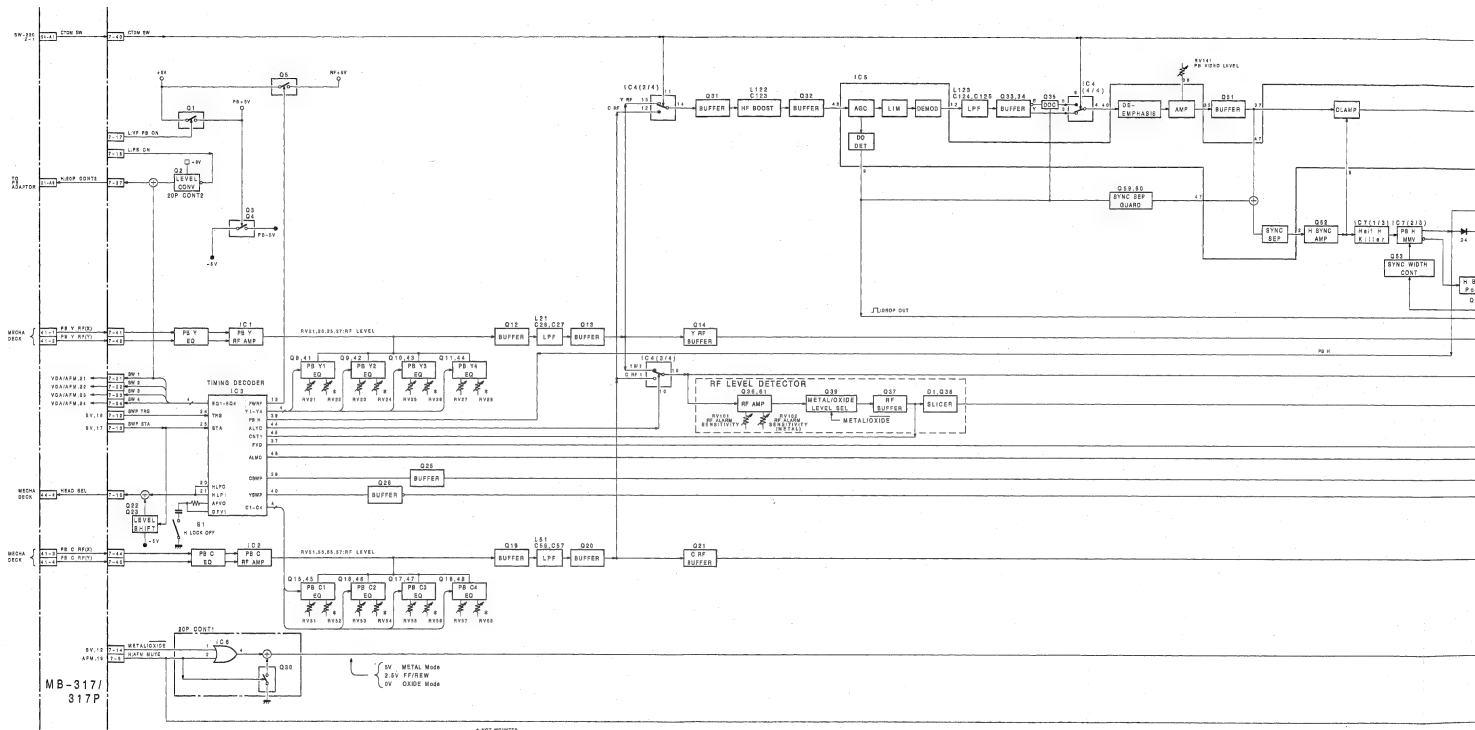


AFM-6P AFM-6P



AFM-6/6P
Y-MODULATOR & AFM BLOCK
BVW-400
BVW-400P

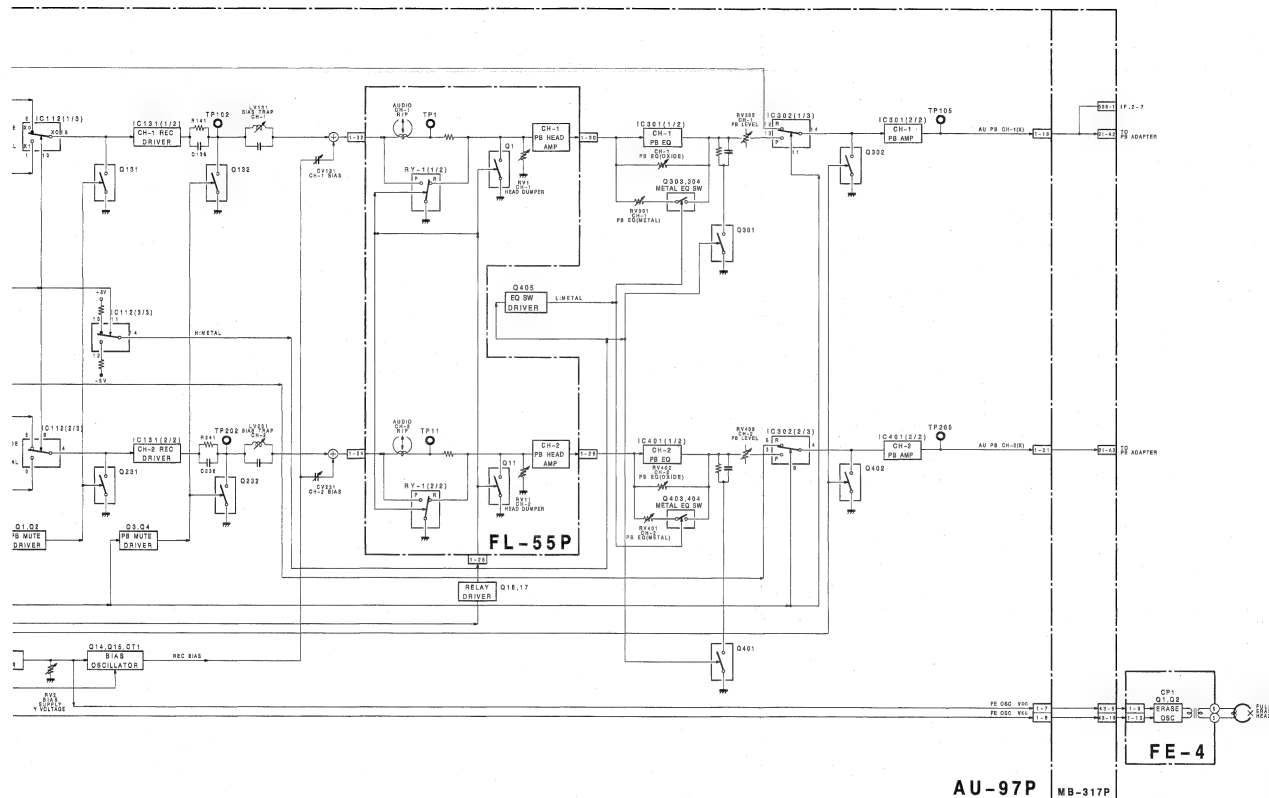
MB-317/
317P





The schematic diagram of the FL-55P tape deck illustrates the internal circuitry, including the tape transport mechanism, tape head, and control electronics. The diagram is organized into several functional blocks:

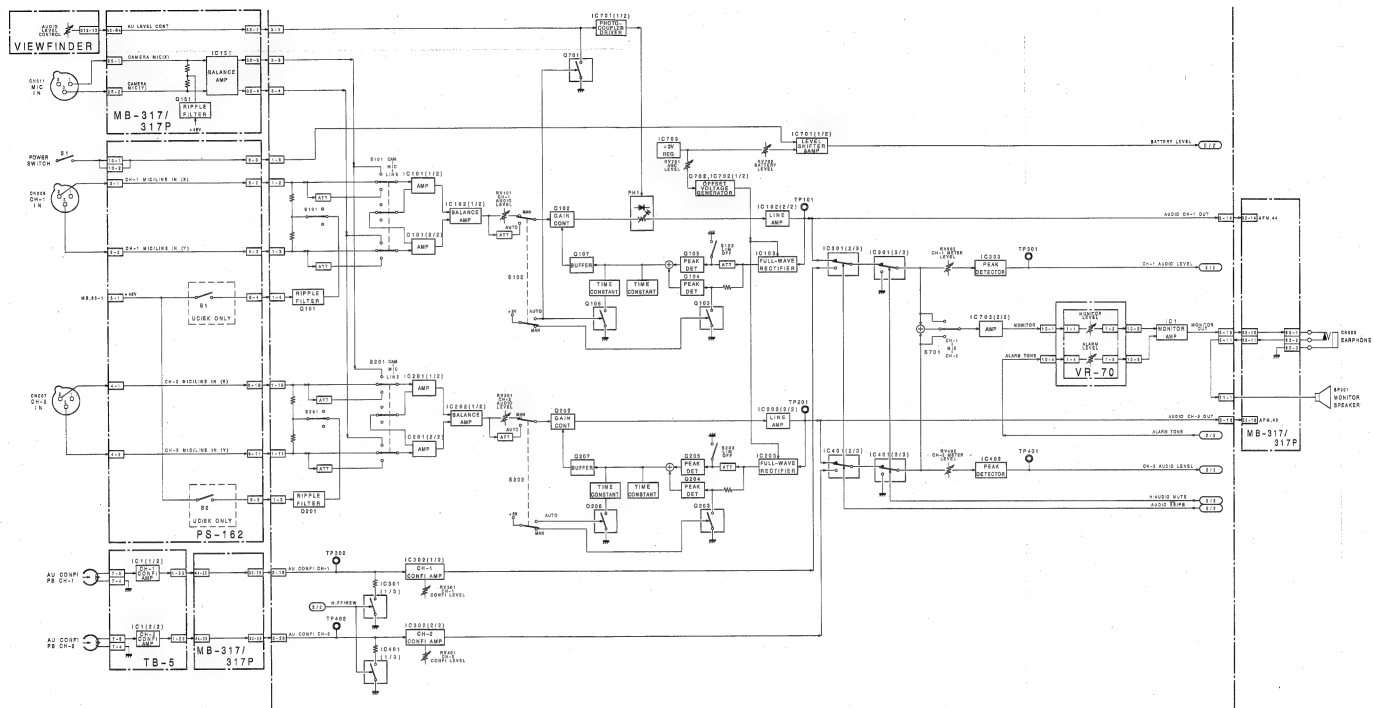
- Power and Biasing:** Includes a +15V REGULATOR (Q18, IC3) and a BIAS OSCILLATOR (Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100, Q101, Q102, Q103, Q104, Q105, Q106, Q107, Q108, Q109, Q110, Q111, Q112, Q113, Q114, Q115, Q116, Q117, Q118, Q119, Q120, Q121, Q122, Q123, Q124, Q125, Q126, Q127, Q128, Q129, Q130, Q131, Q132, Q133, Q134, Q135, Q136, Q137, Q138, Q139, Q140, Q141, Q142, Q143, Q144, Q145, Q146, Q147, Q148, Q149, Q150, Q151, Q152, Q153, Q154, Q155, Q156, Q157, Q158, Q159, Q160, Q161, Q162, Q163, Q164, Q165, Q166, Q167, Q168, Q169, Q170, Q171, Q172, Q173, Q174, Q175, Q176, Q177, Q178, Q179, Q180, Q181, Q182, Q183, Q184, Q185, Q186, Q187, Q188, Q189, Q190, Q191, Q192, Q193, Q194, Q195, Q196, Q197, Q198, Q199, Q200, Q201, Q202, Q203, Q204, Q205, Q206, Q207, Q208, Q209, Q210, Q211, Q212, Q213, Q214, Q215, Q216, Q217, Q218, Q219, Q220, Q221, Q222, Q223, Q224, Q225, Q226, Q227, Q228, Q229, Q230, Q231, Q232, Q233, Q234, Q235, Q236, Q237, Q238, Q239, Q240, Q241, Q242, Q243, Q244, Q245, Q246, Q247, Q248, Q249, Q250, Q251, Q252, Q253, Q254, Q255, Q256, Q257, Q258, Q259, Q260, Q261, Q262, Q263, Q264, Q265, Q266, Q267, Q268, Q269, Q270, Q271, Q272, Q273, Q274, Q275, Q276, Q277, Q278, Q279, Q280, Q281, Q282, Q283, Q284, Q285, Q286, Q287, Q288, Q289, Q290, Q291, Q292, Q293, Q294, Q295, Q296, Q297, Q298, Q299, Q300, Q301, Q302, Q303, Q304, Q305, Q306, Q307, Q308, Q309, Q310, Q311, Q312, Q313, Q314, Q315, Q316, Q317, Q318, Q319, Q320, Q321, Q322, Q323, Q324, Q325, Q326, Q327, Q328, Q329, Q330, Q331, Q332, Q333, Q334, Q335, Q336, Q337, Q338, Q339, Q340, Q341, Q342, Q343, Q344, Q345, Q346, Q347, Q348, Q349, Q350, Q351, Q352, Q353, Q354, Q355, Q356, Q357, Q358, Q359, Q360, Q361, Q362, Q363, Q364, Q365, Q366, Q367, Q368, Q369, Q370, Q371, Q372, Q373, Q374, Q375, Q376, Q377, Q378, Q379, Q380, Q381, Q382, Q383, Q384, Q385, Q386, Q387, Q388, Q389, Q390, Q391, Q392, Q393, Q394, Q395, Q396, Q397, Q398, Q399, Q400, Q401, Q402, Q403, Q404, Q405, Q406, Q407, Q408, Q409, Q410, Q411, Q412, Q413, Q414, Q415, Q416, Q417, Q418, Q419, Q420, Q421, Q422, Q423, Q424, Q425, Q426, Q427, Q428, Q429, Q430, Q431, Q432, Q433, Q434, Q435, Q436, Q437, Q438, Q439, Q440, Q441, Q442, Q443, Q444, Q445, Q446, Q447, Q448, Q449, Q450, Q451, Q452, Q453, Q454, Q455, Q456, Q457, Q458, Q459, Q460, Q461, Q462, Q463, Q464, Q465, Q466, Q467, Q468, Q469, Q470, Q471, Q472, Q473, Q474, Q475, Q476, Q477, Q478, Q479, Q480, Q481, Q482, Q483, Q484, Q485, Q486, Q487, Q488, Q489, Q490, Q491, Q492, Q493, Q494, Q495, Q496, Q497, Q498, Q499, Q500, Q501, Q502, Q503, Q504, Q505, Q506, Q507, Q508, Q509, Q510, Q511, Q512, Q513, Q514, Q515, Q516, Q517, Q518, Q519, Q520, Q521, Q522, Q523, Q524, Q525, Q526, Q527, Q528, Q529, Q530, Q531, Q532, Q533, Q534, Q535, Q536, Q537, Q538, Q539, Q540, Q541, Q542, Q543, Q544, Q545, Q546, Q547, Q548, Q549, Q550, Q551, Q552, Q553, Q554, Q555, Q556, Q557, Q558, Q559, Q560, Q561, Q562, Q563, Q564, Q565, Q566, Q567, Q568, Q569, Q570, Q571, Q572, Q573, Q574, Q575, Q576, Q577, Q578, Q579, Q580, Q581, Q582, Q583, Q584, Q585, Q586, Q587, Q588, Q589, Q590, Q591, Q592, Q593, Q594, Q595, Q596, Q597, Q598, Q599, Q600, Q601, Q602, Q603, Q604, Q605, Q606, Q607, Q608, Q609, Q610, Q611, Q612, Q613, Q614, Q615, Q616, Q617, Q618, Q619, Q620, Q621, Q622, Q623, Q624, Q625, Q626, Q627, Q628, Q629, Q630, Q631, Q632, Q633, Q634, Q635, Q636, Q637, Q638, Q639, Q640, Q641, Q642, Q643, Q644, Q645, Q646, Q647, Q648, Q649, Q650, Q651, Q652, Q653, Q654, Q655, Q656, Q657, Q658, Q659, Q660, Q661, Q662, Q663, Q664, Q665, Q666, Q667, Q668, Q669, Q670, Q671, Q672, Q673, Q674, Q675, Q676, Q677, Q678, Q679, Q680, Q681, Q682, Q683, Q684, Q685, Q686, Q687, Q688, Q689, Q690, Q691, Q692, Q693, Q694, Q695, Q696, Q697, Q698, Q699, Q700, Q701, Q702, Q703, Q704, Q705, Q706, Q707, Q708, Q709, Q710, Q711, Q712, Q713, Q714, Q715, Q716, Q717, Q718, Q719, Q720, Q721, Q722, Q723, Q724, Q725, Q726, Q727, Q728, Q729, Q730, Q731, Q732, Q733, Q734, Q735, Q736, Q737, Q738, Q739, Q740, Q741, Q742, Q743, Q744, Q745, Q746, Q747, Q748, Q749, Q750, Q751, Q752, Q753, Q754, Q755, Q756, Q757, Q758, Q759, Q760, Q761, Q762, Q763, Q764, Q765, Q766, Q767, Q768, Q769, Q770, Q771, Q772, Q773, Q774, Q775, Q776, Q777, Q778, Q779, Q780, Q781, Q782, Q783, Q784, Q785, Q786, Q787, Q788, Q789, Q790, Q791, Q792, Q793, Q794, Q795, Q796, Q797, Q798, Q799, Q800, Q801, Q802, Q803, Q804, Q805, Q806, Q807, Q808, Q809



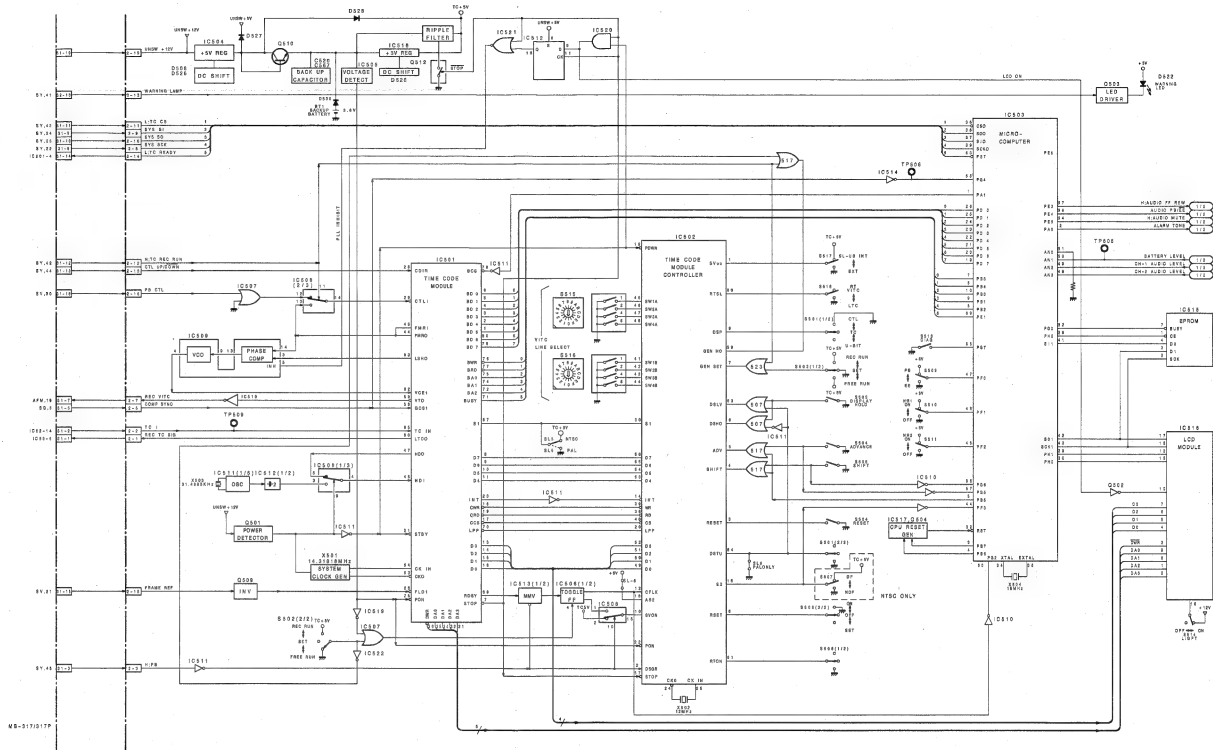
AU-97P MB-317P

AU-97P
AUDIO BLOCK
BVW-400P

TIME CODE, LEVEL CONTROL, MONITOR, SW, INDICATOR

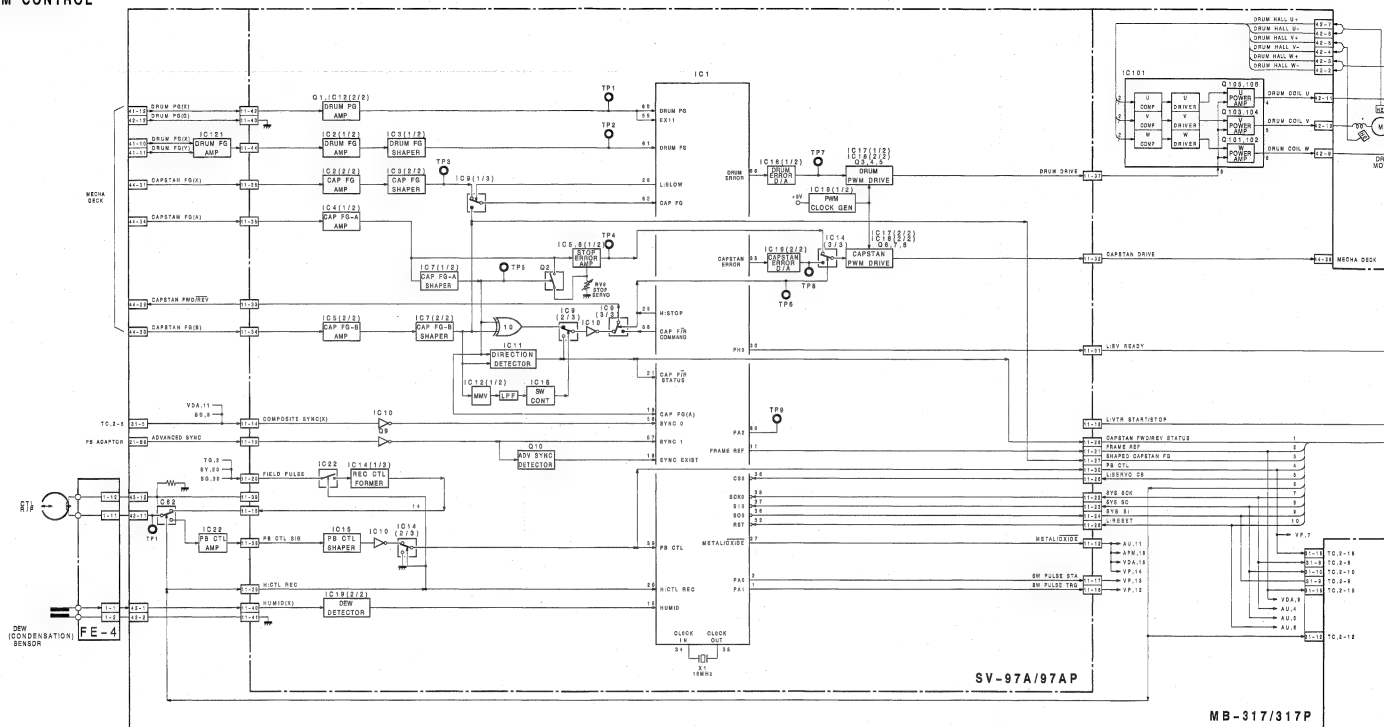


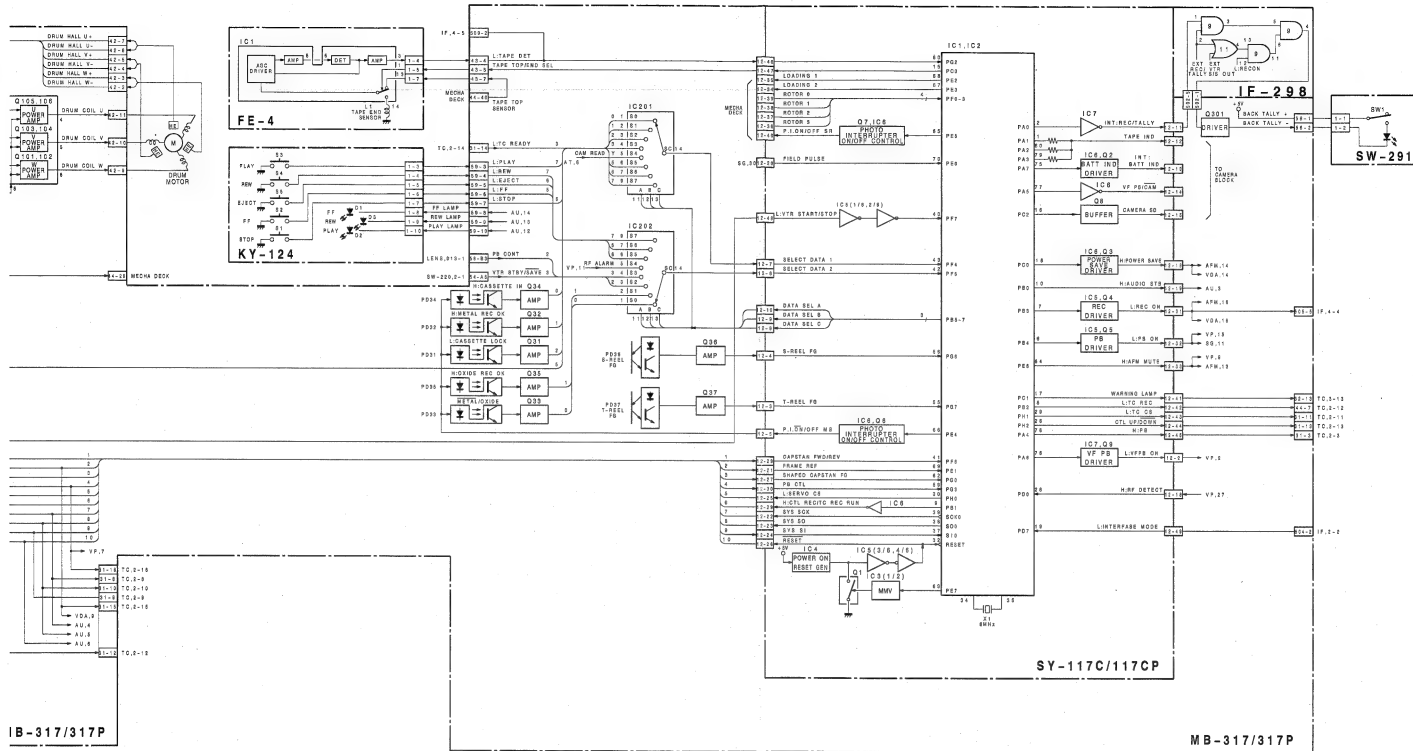
TC-48A/48AP(1/2)
AUDIO BLOCK
BVW-400
BVW-400P



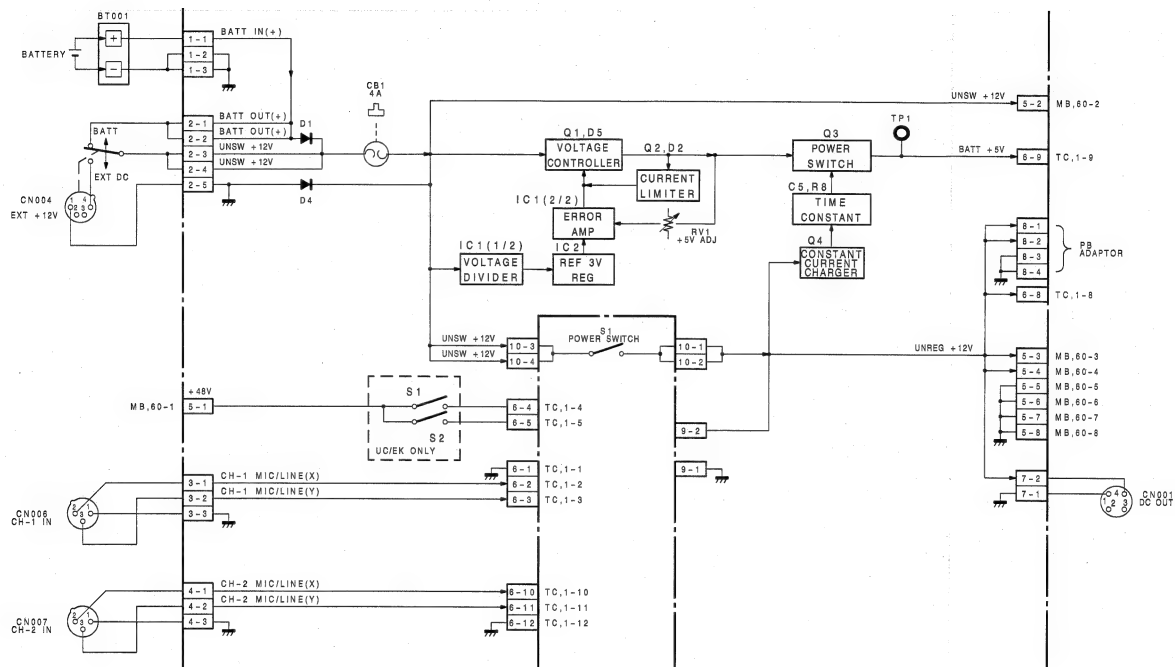
TC-48A/48AP(2/2)
TIME CODE BLOCK
BVW-400
BVW-400P

SERVO SYSTEM
SYSTEM CONTROL





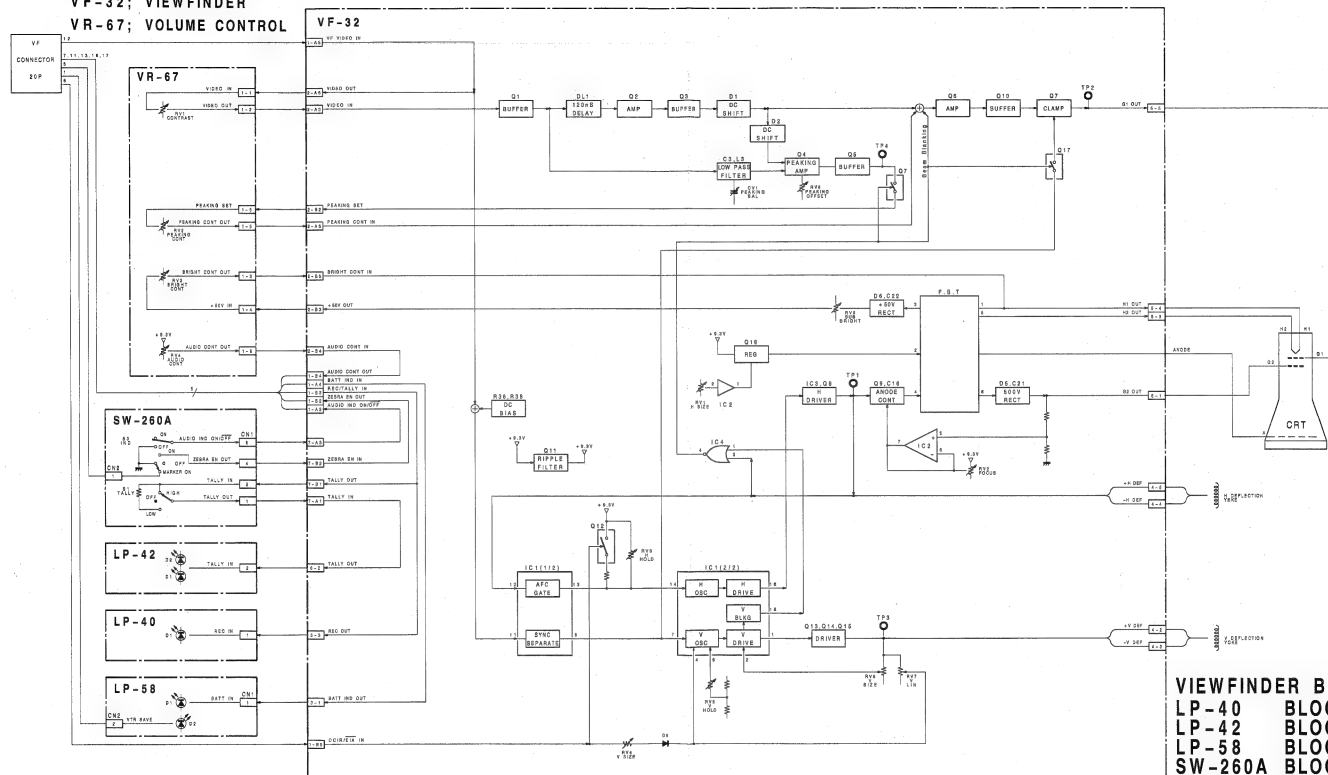
POWER DISTRIBUTOR



PS-162
POWER SUPPLY BLOCK
BVW-400
BVW-400P

VIEWFINDER VIEWFINDER

LP-40; REC LED
LP-58; BATT/TALLY,VTR SAVE LED
LP-42; FRONT TALLY LED
SW-260A; SWITCH BOARD
VF-32; VIEWFINDER
VR-67; VOLUME CONTROL



VIEWFINDER BLOCK
LP-40 BLOCK
LP-42 BLOCK
LP-58 BLOCK
SW-260A BLOCK
VF-32 BLOCK
VR-67 BLOCK

BW-400
BW-400P

SECTION 10

SEMICONDUCTOR ELECTRODES

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。) 部品の交換をする時は、SPARE PARTSの章を参照して下さい。

ICs, transistors and diodes whose functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

IC	PAGE	IC	PAGE	IC	PAGE
AD707JR	10-3	M5236L	10-23	TC40H004F	10-27
AN6391NS	10-3	M5236ML	10-23	TC40H241F	10-27
AN6701S	10-3	MC14011BF	10-23	TC4512BF	10-28
BA6229	10-3	MC14013BF	10-23	TC4501F	10-28
BH1210	10-3	MC14046BF	10-23	TC4511F	10-28
BH1213	10-3	MC14051BF	10-24	TC4530F	10-28
BH1214	10-4	MC14053BF	10-24	TC4569F	10-28
BH1216	10-4	MC14068UBF	10-25	TC4571F	10-28
BH1217	10-4	MC14071BF	10-24	TC4581F	10-28
BH1218	10-4	MC14538BF	10-24	TC45U69F	10-28
BH1219A	10-4	MC74HC4053F	10-24	TC50H001F	10-28
BH1220	10-4	MC74HC4538F	10-25	TC74HC14F	10-28
BH1221	10-4	MN1237AD	10-25	TC74HC4049F	10-28
BH1262	10-5	NJD062M	10-25	TC74HC4053AF	10-24
BX1040	10-5	NJM064M	10-25	TC74HC4538F	10-24
BX1179	10-5	NJM386M	10-25	TC7504F	10-29
BX1356	10-5	NJM4559M	10-25	TC7508F	10-29
CX518	10-5	RC1496M	10-25	TL062CPS	10-25
CX20030	10-6	RC2041MD	10-26	TL064CNS	10-25
CX20099	10-6	RC2043MD	10-26	TL072CPS	10-29
CX22017	10-6	RC4556MA	10-26	TL7700CPS	10-29
CX7968A	10-7	RC4558M	10-26	TLC27L2CPS	10-29
CX7969	10-8	S-9054HN-CB	10-26	TLC27L4CNS	10-29
CXA1065M	10-9	S-81230AG-RB	10-26	UPC1663G	10-29
CXA1127M	10-10	SBX1588	10-26	UPC311G2	10-29
CXD1216M	10-10	SN74HC00NS	10-26	UPC358G2	10-30
CXD1217M	10-10	SN74HC244NS	10-26	UPC4558G2	10-26
CXD1128Q	10-11	SN74HC574NS	10-26	UPC4572G2	10-30
CXD1132Q	10-12	SN74HC14NS	10-26	UPC78N77H	10-30
CXD1251Q	10-11	SN74LS123NS	10-27	UPC812G2	10-30
CXD8002	10-17	TC4013BF	10-27		
CXD8042Q	10-20	TC4023BF	10-27		
CXD8154M	10-20	TC4030BFB	10-27		
CXX1011P	10-21	TC4049BF	10-27		
CXP80116	10-21	TC4050BF	10-27		
HA11423MP	10-22	TC4053BFB	10-24		
HD74AC04P	10-22	TC4066BFB	10-27		
LA7205M	10-22	TC4069UBF	10-25		
LM2903M	10-23				
LM2904	10-23				

等価回路はICメーカーのData Bookに従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

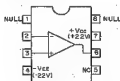
Transistor PAGE

2SA812	10-31
2SA1213	10-31
2SA1226	10-31
2SA1611	10-31
2SA1462	10-31
2SA1463	10-31
2SB624	10-31
2SB798	10-31
2SB907	10-31
2SC1009A	10-31
2SC1623	10-31
2SC2713	10-31
2SC2757	10-31
2SC2873	10-31
2SC3360	10-31
2SC3661	10-31
2SC4177	10-31
2SC4178	10-31
2SC4213	10-31
2SD596	10-31
2SD1221	10-31
2SD1615A	10-31
2SK94	10-31
2SK209	10-31
2SK508	10-31
2SK612	10-31
2SK620	10-31
3SK163	10-31
DTA114YK	10-31
DTC114YU	10-31
DTC114EU	10-31
DTA144EU	10-31
DTC144EU	10-31
NTM2369	10-31

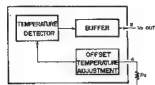
Diode PAGE

1S1555	10-32
1S2835-T1	10-32
1S2836	10-32
1S2837-T1	10-32
1SS123	10-32
1SS304	10-32
BR0035	10-32
DA204U	10-32
DAN202U	10-32
E100S04	10-32
EBR3402S	10-32
ERA81-004	10-32
GL-1HD1	10-32
GL-5LR40	10-32
GP-1S54	10-32
GP-2S09	10-32
HSM88AS	10-32
HZ7ALL	10-32
HZ7A7L	10-32
HZ7BLL	10-32
HZ7B7L	10-32
RD77ESB7	10-32
RD77EL7	10-32
RD77FB7	10-32
RD77M	10-32
SB01-05CP	10-32
U05E	10-32
V09C	10-32
V117	10-32

AD707JK (ANALOG DEVICES)
AD707JK (ANALOG DEVICES) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —

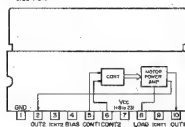


AN6701S (MATSHITA) FLAT PACKAGE
TEMPERATURE SENSING
— TOP VIEW —

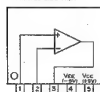


R_f : RESISTOR FOR CALIBRATION

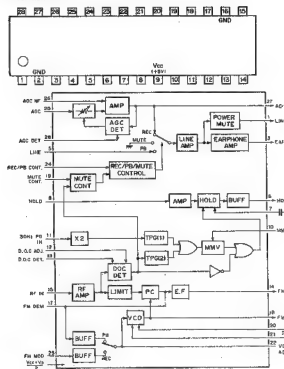
BA622S (ROHM)
BI-DIRECTIONAL MOTOR DRIVER
— SIDE VIEW —



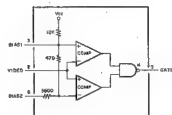
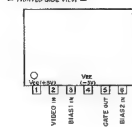
BH1210 (SONY)
VIDEO AMPLIFIER
— PRINTED SIDE VIEW —



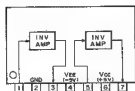
AN5911MS (MATSHITA) FLAT PACKAGE
AUDIO FM REC/PS AMP
— TOP VIEW —



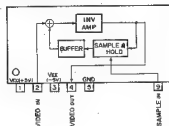
BH1213 (SONY)
VIDEO LEVEL DETECTOR
— PRINTED SIDE VIEW —



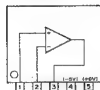
BH1214 (SONY)
DUAL VIDEO INV. AMPLIFIER
— PRINTED SIDE VIEW —



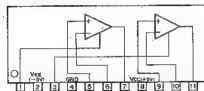
BH1218 (SONY)
VIDEO AMPLIFIER WITH CLAMP
— PRINTED SIDE VIEW —



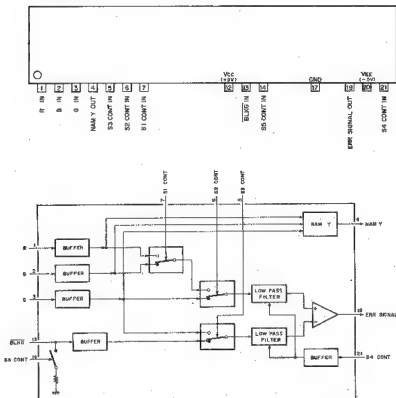
BH1217 (SONY)
VIDEO AMPLIFIER
— PRINTED SIDE VIEW —



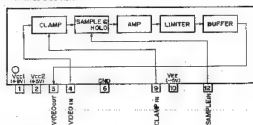
BH1218 (SONY)
VIDEO AMPLIFIER
— PRINTED SIDE VIEW —



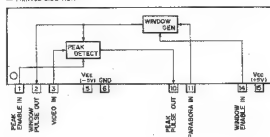
BH1220 (SONY)
VIDEO SWITCHER AND ERROR SIGNAL GENERATOR
— PRINTED SIDE VIEW —



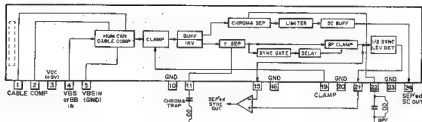
BH1219 (SONY)
BH1218A (SONY)
VIDEO DC CONVERTER
— PRINTED SIDE VIEW —



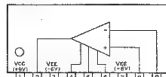
BH1221 (SONY)
SAMPLE PULSE GENERATOR
— PRINTED SIDE VIEW —



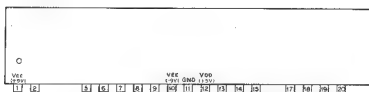
EX1040 (SONY)
SYNC SEPARATOR
— REAR VIEW —



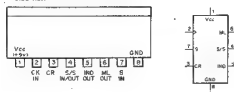
EX1356 (SONY)
VIDEO OUTPUT AMPLIFIER
— PRINTED SIDE —



EX1179 (SONY)
S-CHANNEL SELECTABLE SAMPLING HOLDER
— PRINTED SIDE —

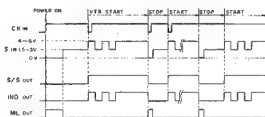
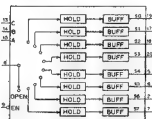


CX518 (SONY)
INTERFACE CIRCUIT BETWEEN VCR AND CAMERA
— SIDE VIEW —

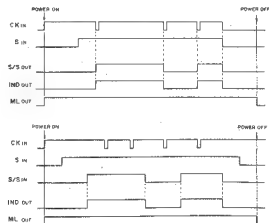
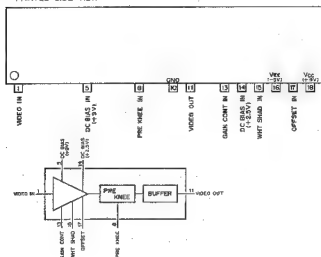


EN	C	B	A	FUNCTION
0	0	0	0	S0
0	0	0	1	S1
0	0	1	0	S2
0	0	1	1	S3
0	1	0	0	S4
0	1	0	1	S5
0	1	1	0	S6
0	1	1	1	S7
1	X	X	X	OPEN

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE



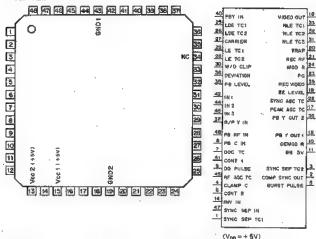
BH1262 (SONY)
GAIN CONT. AMPLIFIER
— PRINTED SIDE VIEW —



CX20000 (SONY) FLAT PACKAGE
CX21200AR (SONY) FLAT PACKAGE

VIDEO Y SIGNAL PROCESSOR

— TOP VIEW —



PIN NO.	NO.	SYMBOL	PIN NO.	NO.	SYMBOL	PIN NO.	NO.	SYMBOL
1	I	SYNC SEP TC1	17	I	PEAK AGC TC	33	I	NLE TC1
2	O	COMP SYNC	18	I	EE LEVEL	34	I	NC
3	I	SYNC SEP TC2	19	I	ONESH	35	O	PSY OUT2
4	I	CLAMP C	20	I	TRAP	36	I	DEVIATION
5	I	BURST PULSE	21	O	REC RF	37	I	RF Y IN
6	I	CONTR	22	I	SYNC AGC TC	38	I	PS LEVEL
7	I	DOG TC	23	I	PG	39	O	REC VIDEO
8	I	FB C	24	I	MOD R	40	I	PS Y IN
9	O	DO PULSE	25	I	LE TC1	41	I	CONT
10	I	DEMOD IN	26	I	LE TC2	42	I	RF1
11	I	PS Y IN	27	I	CARRIER	43	I	GND1
12	O	PS Y OUT	28	I	LE TC2	44	I	RF AGC TC
13	I	VAG	29	I	LE TC1	45	I	RF AGC TC
14	I	INV IN	30	I	W/O CLIP	46	I	RF3
15	I	VCC1	31	I	NLE TC2	47	I	SYNC SEP IN
16	O	VIDEO OUT	32	I	NLE TC2	48	I	PS RF IN

(V_{DD} = +5V)

INPUT

BURST PULSE : BURST PULSE INPUT
CARRIER : FM MODULATOR CARRIER CONTROL INPUT
CLAMP C : EXTERNAL CAPACITOR FOR CLAMPING INPUT
CONT 2 : INTERNAL SWITCH CONTROL INPUT
HOLDING AND VEO-AGC CONTROL INPUT
DEMOD R : EXTERNAL RESISTOR FOR FM DEMODULATOR INPUT
DEVIATION : DEVIATION CONTROL INPUT
DOG TC : EXTERNAL CAPACITOR FOR DROP-OUT DETECTION INPUT
LE LEVEL : SYNC AGC CONTROL INPUT
RF 1 - RF 3 : RECORDING VIDEO SIGNAL INPUTS
INVERTING INPUT FOR VIDEO CIRCUIT
LDE TC1, TC2 : EXTERNAL RESISTOR FOR LINEAR DEEMPHASIS INPUTS
LE TC1, TC2 : EXTERNAL CR FOR LINEAR DEEMPHASIS INPUTS
MOD R : EXTERNAL RESISTOR FOR FM MODULATOR INPUT
NLE TC1 - NLE TC3 : EXTERNAL CAPACITOR FOR NONLINEAR DEEMPHASIS INPUTS
PS C : POWER FOR PLAYBACK SYSTEM INPUT
PS CHRONA INPUT AND SA/C CONTROL INPUT
PS LEVEL : PS Y OUT2 SIGNAL CONTROL INPUT
PS RF IN : PS RF Y IN INPUT
PS Y IN : PS Y SIGNAL FOR DEEMPHASIS INPUT
PEAK AGC TC : EXTERNAL CR INPUT FOR PEAK AGC
RF AGC TC : RF AGC TC INPUT
RF Y : Y SIGNAL FOR CLAMPING INPUT
SYNC AGC TC : EXTERNAL CR INPUT FOR SYNC AGC
SYNC SEP IN : SYNC SEPARATION SIGNAL INPUT
SYNC SEP TC1, TC2 : EXTERNAL CR INPUT FOR SYNC SEPARATION
TRAP : TRAP INPUT
W/O CLIP : LINEAR DEEMPHASIS AND W/O CLIP CONTROL INPUT

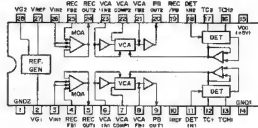
OUTPUT

COMP SYNC : COMPOSITE SYNC OUTPUT
DO PULSE : DROP-OUT PULSE OUTPUT
PS Y OUT2 : FREQUENCY DEMODULATOR OUTPUT
PS Y OUT2 : PS Y OUTPUT
REC RF : RECORDING VIDEO SIGNAL OUTPUT
REC VIDEO : AMPLIFIED Y SIGNAL OUTPUT
VIDEO OUT : VIDEO OUTPUT

CX20000 (SONY) FLAT PACKAGE

VOLTAGE CONTROLLED AMP/DETECTOR/MAIN OPERATIONAL AMP

— TOP VIEW —



DET : DETECTOR

TC : TIME CONSTANT

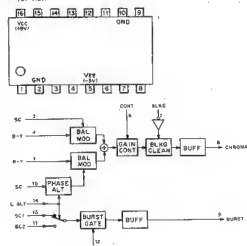
TCH : TIME CONSTANT HOLD

VCA : VOLTAGE CONTROLLED AMP

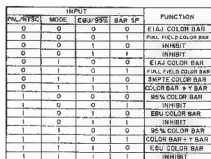
CX22017 (SONY)

VIDEO SIGNAL PROCESSOR

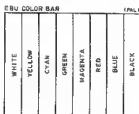
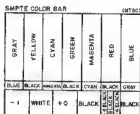
— TOP VIEW —

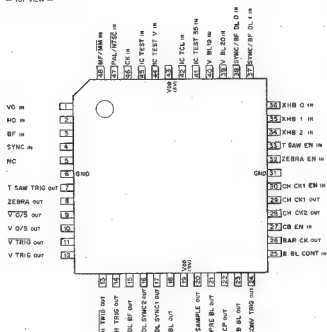


— TOP VIEW —



0 : LOW LEVEL
1 : HIGH LEVEL





SYSTEM DESIGNATION	
INPUT	SYSTEM
PAL/NTSC IN	
1	PAL, SECAM
0	NTSC, PALM

INPUT	SYSTEM
PAL/NTSC IN	
1	PAL, SECAM
0	NTSC, PALM

2. TYPE OF TUBE	
INPUT	FUNCTION
MF/MR IN	
1	MAG-STA TUBE
0	MAG-MAG TUBE

INPUT	FUNCTION
MF/WR IN	
1	MAG-STA TUBE
0	MAG-MAG TUBE

INPUT		V BLK WIDTH
V BL 19	V BL 20	
1	X	19H
0	1	20H
0	0	21H

INPUT		V BLKG WIDTH
V BL 19	V BL 20	
1	X	19H
0	1	20H
0	0	31H

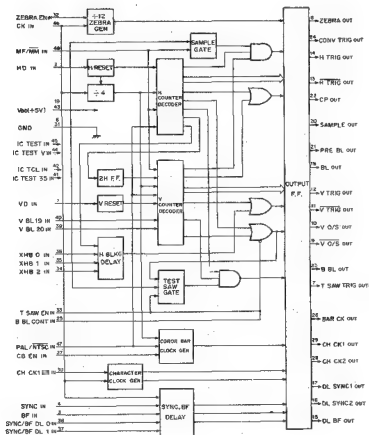
N-BLK WIDTH				BLK WIDTH (pS)	
IO-BLK	HBLK	N-BLK	NTSC	PAL	
1	1	1	10.27	11.49	
1	1	0	10.34	11.56	
1	0	1	10.41	11.63	
1	0	0	10.48	11.70	
0	1	1	10.55	11.77	
0	1	0	10.62	11.84	
0	0	1	10.69	11.91	
0	0	0	10.76	11.98	

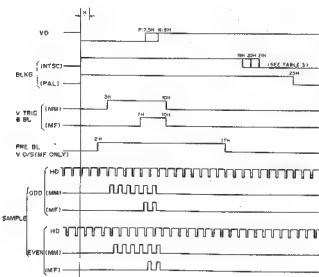
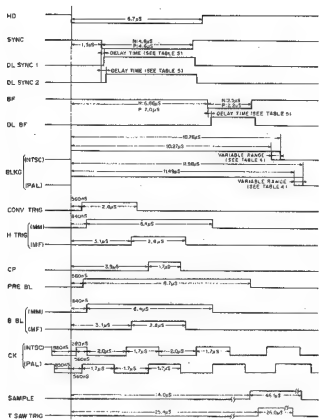
INPUT		BLKG WIDTH (pS)	
IO-B2XHB1XHB0		NTSC	PAL
1	1	10.27	11.49
1	1	10.34	11.56
1	0	10.41	11.63
1	0	10.48	11.70
0	1	10.55	11.77
0	1	10.62	11.84
0	0	10.69	11.91
0	0	10.76	11.98

INPUT		DELAY TIME (ns)		
SYNCP/SP CLK	SYNCP/SP CLK	DL SYNCP 1	DL SYNCP 2	DL BP
1	1	140	210	140
1	0	210	280	210
0	1	630	700	630
0	0	700	770	700

INPUT		DELAY TIME (ns)		
SYNC/BF SLT	SYNC/BF SLT	DL SYNC 1	DL SYNC 2	DL BF
1	1	140	210	140
1	0	210	280	210
0	1	630	700	630
0	0	700	770	700

1; HIGH LEVEL
0; LOW LEVEL
X; DON'T CARE

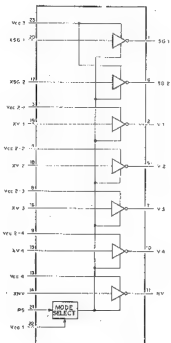




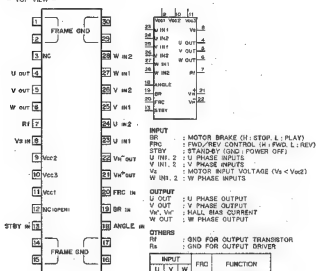
CNA1085M (80N5) FLAT PACKAGE
INVERTING DRIVER FOR CCD CLOCK WITH POWER SAVE
— TOP VIEW —



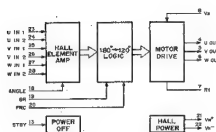
XV1-XV4: VERTICAL REGISTER TRANSMISSION CLOCK INPUT
V1-V4: VERTICAL REGISTER TRANSMISSION CLOCK OUTPUT
XO1, XO2: SENSER GATE PULSE INPUT
XS1, XS2: SENSER GATE PULSE OUTPUT
XV1: DRIVER INPUT
V1: DRIVER OUTPUT
PS: POWER SAVE INPUT
Voc1: 0.1A5 VOLTAGE
Voc2-1: V1 OUTPUT PULSE VOLTAGE
Voc2-2: V2 OUTPUT PULSE VOLTAGE
Voc2-3: V3 OUTPUT PULSE VOLTAGE
Voc2-4: V4 OUTPUT PULSE VOLTAGE
Voc3: SET, SET2 OUTPUT PULSE VOLTAGE
Voc4: V4 OUTPUT PULSE VOLTAGE



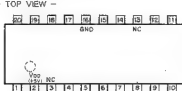
CCA1127M (SONY) FLAT PACKAGE
CAPSTAN MOTOR DRIVER
- TOP VIEW -



Voc1	+4 to +7V	OPEN
Voc2	+4 to +12V	+6 to +12V
Voc3	short to Voc1	short to Voc2
Vs	Vs=Voc2	Vs=Voc2



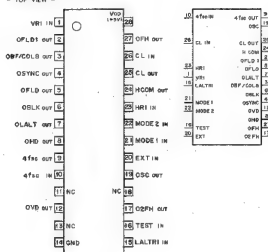
CXD1216M (SONY) FLAT PACKAGE
C-MOS GENLOCK DRIVER



INPUTS		EXT LOCK MODE
MODE 1	MODE 2	
0	0	M1: PAL:VBS
1	0	M2: PAL:M:VBS
0	1	M3: SECAM:VBS/SCAL
1	1	M4: NTSC:VBS/SCAL

0: LOW LEVEL
1: HIGH LEVEL

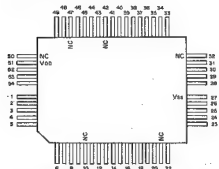
CXD1217M (SONY) FLAT PACKAGE
C-MOS SYNC GENERATOR



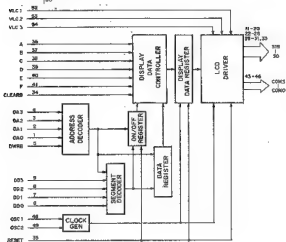
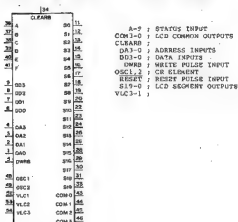
SYSTEM	4fsc	CLOCK
NTSC	910%	910%
PAL	11361±2V	905%
PALM	909%	910%
SECAM	—	908%

INPUT		SYSTEM
MODE1	MODE2	
0	0	NTSC
0	1	SECAM
1	0	PALM
1	1	PAL

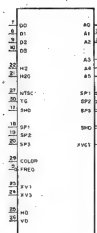
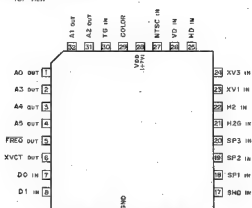
0 : LOW LEVEL
1 : HIGH LEVEL



PN0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	0	1</																																																																																																			



C-MOS TIMING CONTROLLER



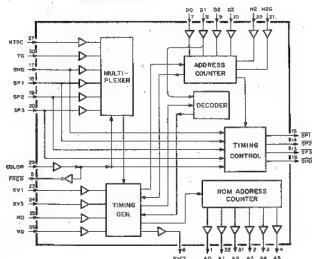
MODE SELECTION		
	1	0
NTSC	CCIR MODE	NTSC MODE
COLOR	B/W MODE	COLOR MODE
TU	IC FOR TG: CYD1149 DSR	IC FOR TG: CYD1155/1156 DSR

1 : HIGH LEVEL
0 : LOW LEVEL

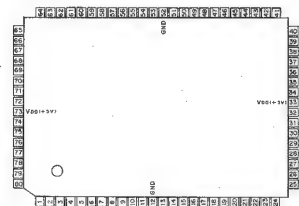
```

D1-D4 : EXTERNAL ROM DATA INPUT
AD-A5 : EXTERNAL ROM ADDRESS OUTPUT
SP1-SP3 : SAMPLE HOLD PULSE
SHO : DATA SAMPLE HOLD PULSE
R2,R2G : CLOCK INPUT FOR HORIZONTAL REGISTER TRANSMISSION
XV1,XV3 : CLOCK INPUT FOR VERTICAL REGISTER TRANSMISSION
KVCT : POWER CONTROL OUTPUT FOR EXTERNAL ROM
HD : HORIZONTAL DRIVE INPUT
VD : VERTICAL DRIVE INPUT

```



CXD11320 (SONY) FLAT PACKAGE
CMOS TIME CODE GENERATOR/READER
= TOP VIEW =

[illegible]

SIGNAL DESCRIPTION

```

$A0-$A2          ; ADDRESS INPUTS
PCS             ; CHIP ENABLE INPUT ("L",ENABLE)
DSB-$D7         ; DATA I/O
RD0             ; READ INPUT ("L",READ)
RDST           ; RDST OUTPUT
WR0             ; WRITE INPUT ("L",WRITE)
CIN0           ; SYSTEM CLOCK INPUT
CIN0 CLOCK 1: OUTPUT (CIN0 X 1/16)
CIN1          ; 1st READ CLOCK INPUT
CIN0 CLOCK 2: OUTPUT (CIN0 X 1/8)
CIN2          ; 2nd READ CLOCK INPUT
CIN0 CLOCK 3: OUTPUT (CIN0 X 1/4)
CIN3          ; ADDRESS DECODE ENABLE INPUT ("L",ENABLE) (when DSP is low)
CIN4          ; DATA DECODE ENABLE INPUT ("L",ENABLE) (when DSP is high)
CD12          ; CLK DIRECTION INPUT
CD12          ; SYSTEM CLOCK INPUT

```

VIDEO SIGNAL FORMAT	CRIN
WHITE 29.97Hz 525LINE	14.318MHz
EBU 25Hz 625LINE	14.500MHz

CR0	CLOCK OUTPUT	14.500MHz
CR2	C READ INPUT ("L":READ)	
CTL1	CTL SIGNAL INPUT	
CMW	C WRITE INPUT ("L":WRITE)	
DO-D7	DATA I/O (when DSP is low)	

ADDRESS INPUTS
DAS-DA3
E ADDRESS INPUTS (when DAS is high)

DATA DEMODULATED SERIAL DATA OUTPUT
DCLK DEMODULATED CLOCK OUTPUT

DSP DISPLAY BUS SELECT INPUT
 DSP controls CCB,DA0-DA3 and DVR.

```
DTSE  VITC DATA SEARCH FLAG OUTPUT
DMR   WRITE ENABLE OUTPUT ("L":ENABLE) (w
E ADDRESS 4 INPUT (when DSP is high
```

QA4	ADDRESS BUS INPUT
FLD1	FIELD REFERENCE INPUT ("L":FIELD)
QW1	QWANT STORAGE INPUT

FRM1	FRAME SIGNAL INPUT
FRM0	FRAME SIGNAL OUTPUT
CCSI	COMPOSITE SYNC INPUT

GLBY	LOST SYNC FLAG OUTPUT
HDI	HORIZONTAL SYNC INPUT
HDO	HORIZONTAL SYNC OUTPUT

```
INT    INTERRUPT REQUEST OUTPUT
LPR    LTC READ REQUEST OUTPUT
```

LTCS	LTC COUNTER RESET INPUT (-L-TRCSKT)
LSND	SYNCHRONOUS SIGNAL OUTPUT
LTCS	LTC SIGNAL OUTPUT

```

PGN    SYSTEM RESET INPUT ("L":PON)
RC51   COMPOSITE SYNC INPUT
RDSY   READ SYNC WORD DATA OUTPUT

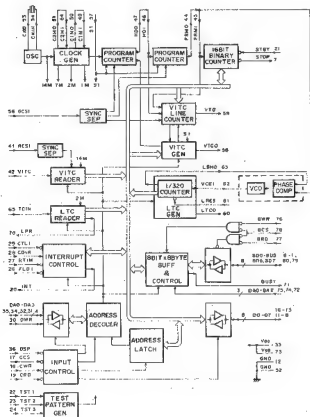
```

```

HRES  RESET INPUT ("L":RTIN)
AFLO  FIELD DATA OUTPUT

```

RTIN	TIME	ADDRESS	RESET	INPUT	(-L: FREQ)
RVDO	VITC	READ	DATA	OUTPUT	



```

S1  SIGNAL FORMAT SELECT INPUT
    "M":NTSC/PAL-M 19.94Hz 525LINE

```

```

      *L: PAL/SECAM    25Hz 625LINE
BLCK SELECT CLOCK INPUT

```

CRIN	14.318MHz	14.5MHz	0.159MHz	7
SPEC	8MHz	END	8MHz	

```
BLIN READ SIZE SELECT INPUT
STBY STANDBY READ FLAG INPUT
STOP STOP OUTPUT ("L":STOP)
```

TCIN LONGITUDINAL TIME AND CONTROL CODE
2579-1673
TEST INSTR

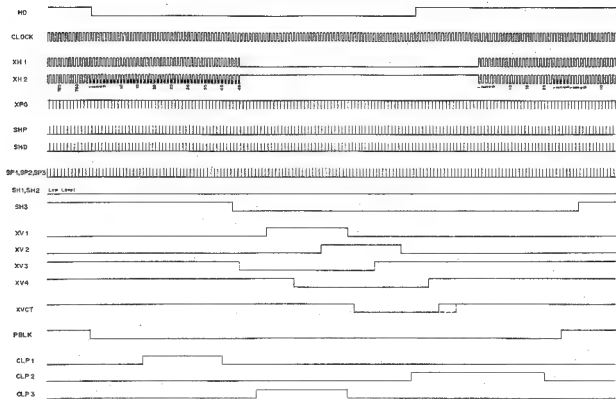
WGB1 LTC CLOCK INPUT
VDO HORIZONTAL SYNC DRIVE OUTPUT

```

VITC VITC SIGNAL INPUT
VTGO VITC GATE SIGNAL OUTPUT
VTO VITC SIGNAL OUTPUT ("B":VITC)

```

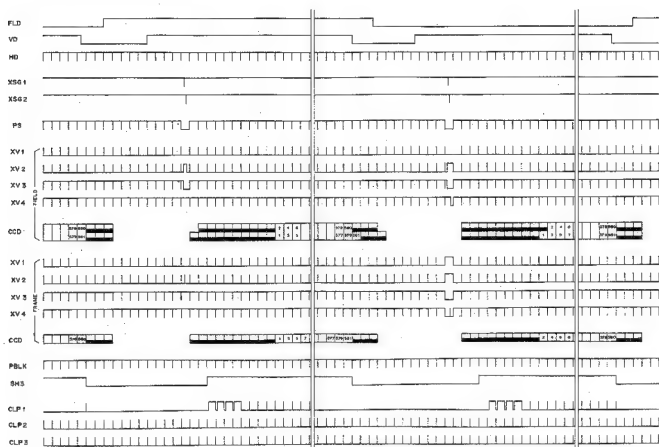
EIA (NTSC, PALM) B/W, 3-CHP COLOR



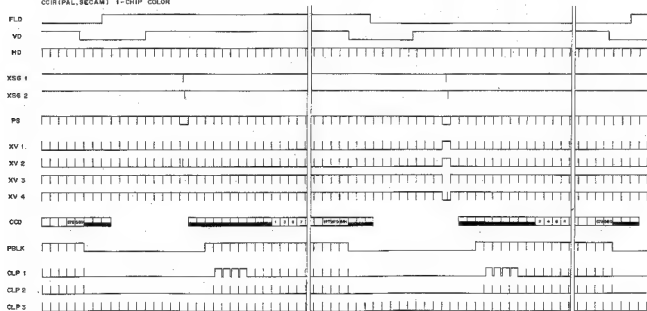
EIA/NTSC, PALM 1-CHP COLOR



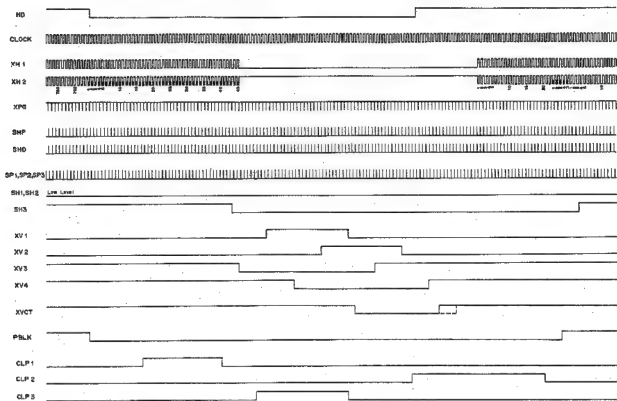
CCIR(PAL,SECAM) 8/W,3-CHIP COLOR



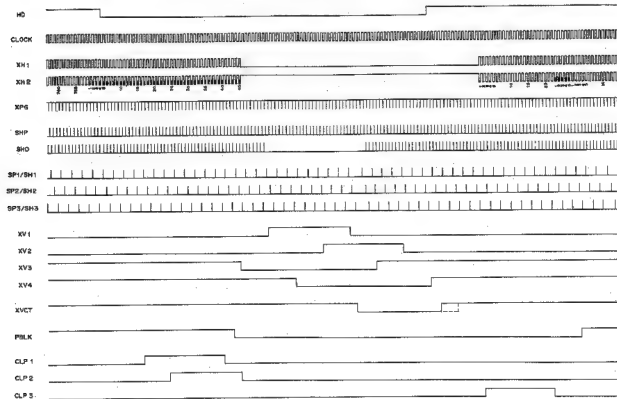
CCIR(PAL,SECAM) 1-CHIP COLOR



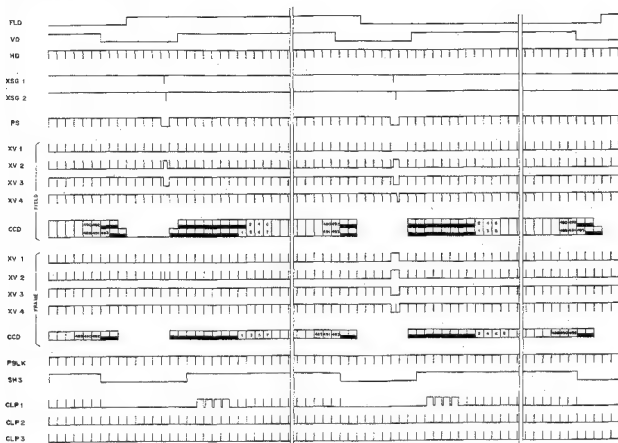
EIA (NTSC, PALM) 1: 2-CHP COLOR



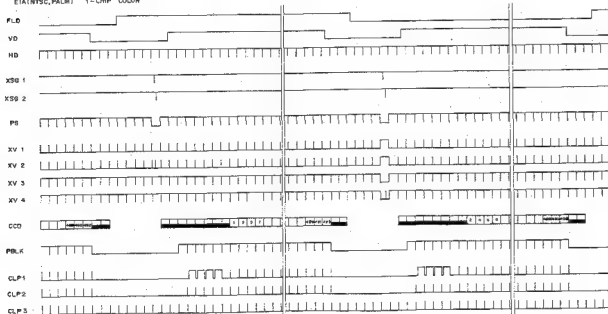
EIA (NTSC, PALM) 1: 1-CHP COLOR



EIA(NTSC,PALM) 8/11,3-CHIP COLOR



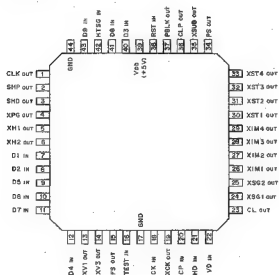
EIA(NTSC,PALM) 1-CHIP COLOR



CX08002 (SONY)

CMOS TIMING PULSE GENERATOR FOR CCD

- TOP VIEW -



MODE SELECT

	LOW LEVEL	HIGH LEVEL
D5	CCR	BA
D6	FRAME	FIELD

SHUTTER SPEED SELECT

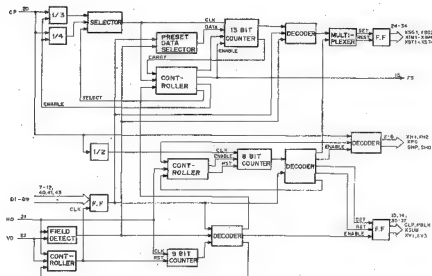
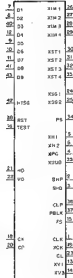
D4	D5	D6	D7	SHUTTER SPEED (fps)
0	0	0	1	OFF
0	0	1	1	1/125
0	1	0	1	1/250
0	1	1	1	1/500
1	0	0	1	1/1000
1	0	1	1	1/2000
1	1	0	1	1/4000
1	1	1	1	1/10000
X	X	X	0	1/100 (EA)
X	X	X	1	1/80 (CCIR)

0: LOW LEVEL

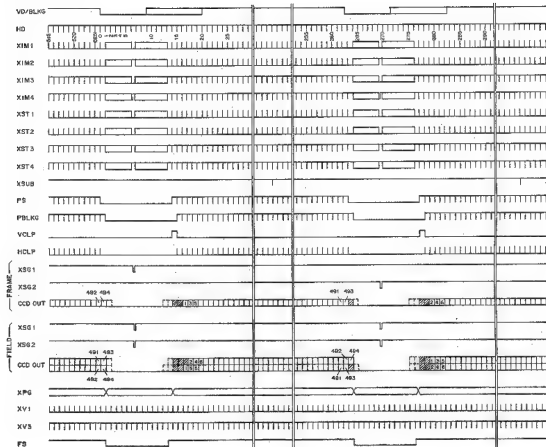
1: HIGH LEVEL

X: DON'T CARE

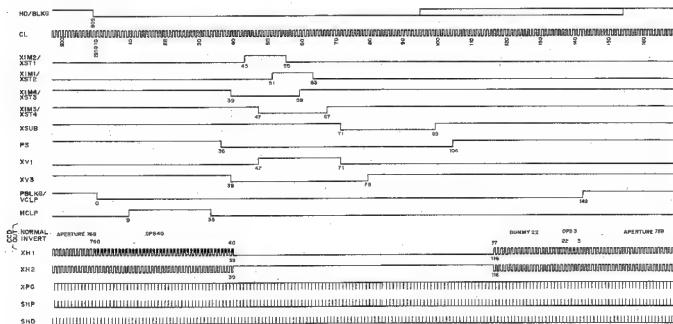
CK : CLOCK INPUTS
 XCK : INVERTED CLOCK OUTPUT
 CLK, CL : CLOCK OUTPUTS
 HD : HORIZONTAL DRIVE INPUT
 VD : VERTICAL DRIVE INPUT
 XS01, XS02 : CLOCK OUTPUTS FOR READ OUT FROM IMAGE SENSOR
 XH01 - XH04 : CLOCK OUTPUTS FOR IMAGE REGISTER DRIVE OF CCD
 XH1 - XH4 : CLOCK OUTPUTS FOR STORAGE REGISTER DRIVE OF CCD
 PS : VERTICAL DRIVER POWER SAVE PULSE OUTPUT
 XPG : PRECHARGE GATE PULSE OUTPUT
 XSD : ELECTRIC CHARGE DISCHARGING PULSE OUTPUT
 SHP : PRECHARGE LEVEL SAMPLE & HOLD PULSE OUTPUT
 SHS : DATA LEVEL SAMPLE & HOLD PULSE OUTPUT
 CLP : CLAMP PULSE OUTPUT
 FBCK : 1/FREELANKING PULSE OUTPUT
 FS : FLAG
 XH1, XH2 : CLOCK OUTPUTS FOR INTERFACE
 HTSD : READ OUT STOP SIGNAL INPUT
 RST, TEST : TEST MODE SIGNAL INPUTS
 D1 - D3, OK, D9 : MODE SELECT SIGNAL INPUTS
 D4 - D7 : SHUTTER SPEED MODE SIGNAL INPUTS



EIA (V BLANKING)



EIA (H BLANKING)



Timing diagram for the 68000 microprocessor. The diagram shows the relationship between the microprocessor signals and the video signals. The signals are:

- MD
- XIM1
- XIM2
- XIM3
- XIM4
- XST1
- XST2
- XST3
- XST4
- XSUB
- P3
- PBLK
- VOLP
- HOLP
- XSG1
- XSG2
- CCD OUT
- XSG1
- XSG2
- XPG
- XV1
- XV2
- F3

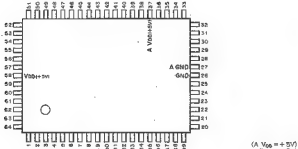
The diagram includes a 100ns scale bar and various signal transitions labeled with codes like 070 581, 580 582, and 580 583.

[illegible]

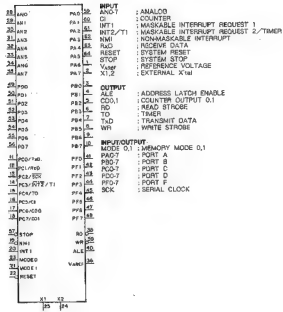
CXD80420 (SONY) FLAT PACKAGE

CMOS TIMECODE CONTROLLER

- TOP VIEW -

(A V_{DD} = +5V)
(V_{SS} = 0V)

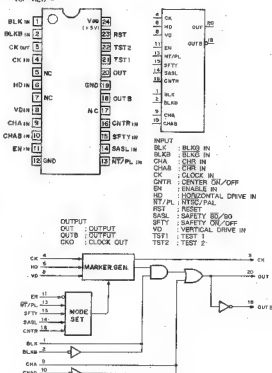
PN	NO	SIGNAL	PN	NO	SIGNAL	PN	NO	SIGNAL	PN	NO	SIGNAL
1	IO	PA6	17	IO	PCMD00	33	I	AN5	49	IO	PD0
2	IO	PA7	18	IO	PCMD01	34	I	AN6	50	IO	PD1
3	IO	PA0	19	I	NMI	35	I	AN7	51	IO	PD2
4	IO	PA1	20	I	INT1	36	I	V _{REF}	52	IO	PD3
5	IO	PA2	21	IO	MODE1	37	-	A V _{DD}	53	IO	PD4
6	IO	PA3	22	I	RESET	38	O	NC	54	IO	PD5
7	IO	PA4	23	IO	MODE0	39	IO	PD6	55	IO	PD6
8	IO	PA5	24	I	SC	40	O	ALE	56	IO	PD7
9	IO	PA6	25	I	X1	41	IO	PP0	57	I	STOP
10	IO	PA7	26	-	GROUND	42	IO	PP1	58	-	V _{SS}
11	IO	PCMD00	27	-	A GND	43	IO	PP2	59	IO	PAD
12	IO	PCMD01	28	I	AN0	44	IO	PP3	60	IO	PA1
13	IO	PCMD02	29	I	AN1	45	IO	PP4	61	IO	PA2
14	IO	PCMD03	30	I	AN2	46	IO	PP5	62	IO	PA3
15	IO	PCMD04	31	I	AN3	47	IO	PP6	63	IO	PAM
16	IO	PCMD05	32	I	AN4	48	IO	PP7	64	IO	PAS



CXD80420 (SONY)

CMOS GATE ARRAY

- TOP VIEW -

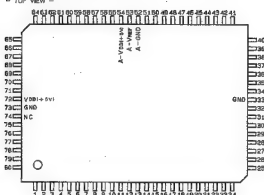


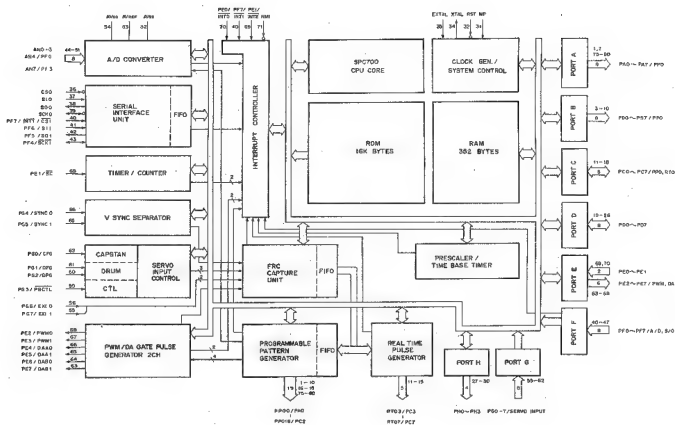
— TOP VIEW —



PN NO.	ID	SYMBOL	PN NO.	HO	SYMBOL
1	O	PEAPP3PO13g	41	I	PEF501
2	O	PEAPP3PO13	42	I	PEF502
3	O	PEBP1PO13	43	UW	PEF6BSC
4	O	PEBP0P13M	44	I	PEF6JAN
5	O	PEBP0P13M	45	I	PEF6JAN
6	O	PEBP0P13M	46	I	PEF6JAN
7	O	PEBP0P13M	47	I	PEF6JAN
8	O	PEBP0P13M	48	I	ANS
9	O	PEBP0P13M	49	I	ANS
10	O	PEBP0P13M	50	I	ANS
11	UO	PCF1PP102	51	I	ANS
12	UO	PCF1PP102	52	I	ANS
13	UO	PCF1PP102	53	-	A-V-Var
14	UO	PCF1PP102	54	-	A-V-Var
15	UO	PCF1PP102	55	I	A-V-Var
16	UO	PCF1PP102	56	I	A-V-Var
17	UO	PCF1PP102	57	I	PCG5VINC1
18	UO	PCF1PP102	58	I	PCG5VINC1
19	UO	PCF1PP102	59	I	PCG5VINC1
20	UO	PCF1PP102	60	I	PCG5VINC1
21	UO	PCF1PP102	61	I	PCG5VINC1
22	UO	PCF1PP102	62	I	PCG5VINC1
23	UO	PCF1PP102	63	I	PCG5VINC1
24	UO	PCF1PP102	64	I	PCG5VINC1
25	UO	PCF1PP102	65	O	PCF6DA1
26	O	PCF6DA1	66	O	PCF6DA1
27	O	PCF6DA1	67	O	PCF6DA1
28	O	PCF6DA1	68	O	PCF6DA1
29	O	PCF6DA1	69	O	PCF6DA1
30	O	PCF6DA1	70	O	PCF6DA1
31	I	PH	71	I	NRE
32	IO	QND	72	-	QND
33	I	QND	73	-	QND
34	O	QND	74	-	QND
35	I	QND	75	O	PCF6P0V13
36	I	QND	76	O	PCF6P0V13
37	I	QND	77	O	PCF6P0V13
38	O	S00	78	O	PCF6P0V13
39	IO	S00	79	O	PCF6P0V13
40	O	PPF101E02S	80	O	PCF6P0V13

C-MOS 8-BIT MICROCOMPUTER
— YOUR NEW —

[illegible]



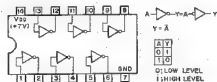
HA114923MP (HITACHI) FLAT PACKAGE
TV AND SYNC SIGNAL PROCESSOR
— TOP VIEW —



MO74AC04P-R (HITACHI)

CMOS INVERTER

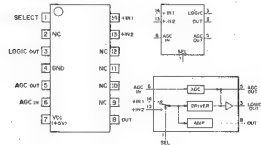
— TOP VIEW —



LA7206M (SANYO) FLAT PACKAGE

TAPE HEAD DETECTOR

— TOP VIEW —



LM2903M (RAYTHEON) FLAT PACKAGE

DUAL VOLTAGE COMPARATORS

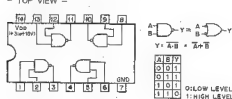
- TOP VIEW -



MC14011BF (MOTOROLA) FLAY PACKAGE

C-MOS 2-INPUT NAND GATE

- TOP VIEW -



LM2904M (NSC) FLAT PACKAGE

OPERATIONAL AMPLIFIER

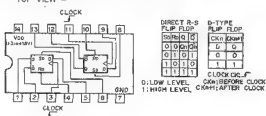
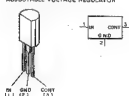
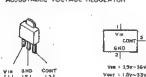
- TOP VIEW -



MC14013BF (MOTOROLA) FLAT PACKAGE

CMOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET

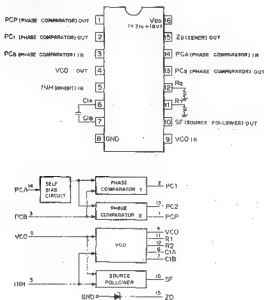
- TOP VIEW -

ME238L (MITSUBISHI)
ADJUSTABLE VOLTAGE REGULATORM5235ML (MITSUBISHI)
ADJUSTABLE VOLTAGE REGULATOR

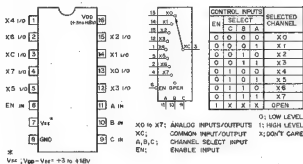
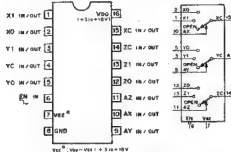
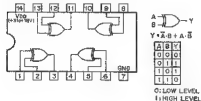
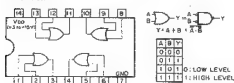
MC14045BF (MOTOROLA) FLAT PACKAGE

C-MOS PHASE LOCKED LOOP

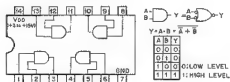
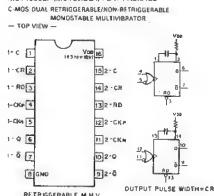
— TOP VIEW —



MC14051BF (MOTOROLA) FLAT PACKAGE

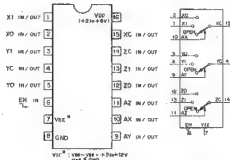
CMOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTEPLEXER
— TOP VIEW —V_{DD} = V_{SS} = +3 to +15VTC4053BF (TOSHIBA) FLAT PACKAGE
TC4053BFH (TOSHIBA) FLAT PACKAGE
MC14053BF (MOTOROLA) FLAT PACKAGE
CMOS 2-CHANNEL MULTIPLEXER/DEMULTEPLEXER
— TOP VIEW —V_{DD} = V_{SS} = +3 to +15VMC14070BF (MOTOROLA) FLAT PACKAGE
CMOS EXCLUSIVE OR GATE
— TOP VIEW —TC4071BF (TOSHIBA)
MC14071BF (MOTOROLA) FLAT PACKAGE
CMOS 2-INPUT OR GATE
— TOP VIEW —

MC14081BF (MOTOROLA) FLAT PACKAGE

CMOS 2-INPUT AND GATE
— TOP VIEW —TC4538BF (TOSHIBA) FLAT PACKAGE
TC74HC4538F (TOSHIBA) FLAT PACKAGE
MC14538BF (MOTOROLA) FLAT PACKAGE
CMOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE
MONOSTABLE MULTIVIBRATOR
— TOP VIEW —

RETRIGGERABLE M.M.V.

NON-RETRIGGERABLE M.M.V.

MC74HC053BF (MOTOROLA) FLAT PACKAGE
TC74HC053BF (TOSHIBA) FLAT PACKAGE
CMOS 2-CHANNEL MULTIPLEXER/DEMULTEPLEXER
— TOP VIEW —

RC2041MD (RAYTHEON) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



RC2043MD (RAYTHEON) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



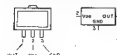
RC4556MA (RAYTHEON) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)
- TOP VIEW -



RC4556M (RAYTHEON) FLAT PACKAGE
UPO45562 (MID) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



S-8054HN-CB (SEIKO)
+5V VOLTAGE DETECTOR WITH N-CANAL OPEN DRAIN OUTPUT
- TOP VIEW -



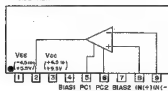
S-81230AG-R0 (SEIKO) FLAT PACKAGE
THREE TERMINAL POSITIVE VOLTAGE REGULATOR
- TOP VIEW -



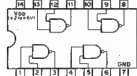
OUTPUT VOLTAGE	S-8127977-Y7
+2.5V	S-81223AG-RH
+3.0V	S-81230AG-RB
+5.0V	S-81250HG-RD



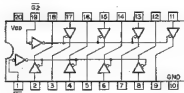
SBX155B (SONY)
VIDEO AMPLIFIER
- SIDE VIEW -



SN74HC00NS (TI) FLAT PACKAGE
CMOS 2-INPUT NAND GATE
- TOP VIEW -



SN74HC266NS (TI) FLAT PACKAGE
CMOS BUS BUFFER WITH 3-STATE OUTPUTS
- TOP VIEW -

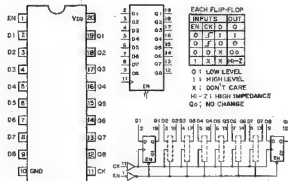


A	Y
0	0
1	1

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

TYPE	V _{DD}
AC	+2 to +6V
4001	+5V
ACT	+5V
HCT	+5V

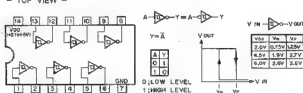
SN74HC374NS (TI) FLAT PACKAGE
CMOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP
- TOP VIEW -



EN	Q	Q̄
0	0	1
1	1	0

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE
G: NO CHANGE

SN74HC14NS (TI) FLAT PACKAGE
CMOS SCHMITT TRIGGER INVERTER
- TOP VIEW -

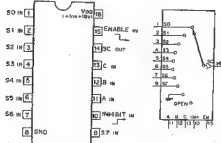


A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL

V _{DD}	V _{TH}	V _{TL}
2.0V	0.77V	0.25V
4.0V	1.5V	0.7V
6.0V	2.4V	1.4V

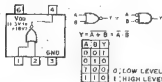
TC4812BF (MOTOROLA) FLAT PACKAGE
C-MOS 8-CHANNEL MUX/A SELECTOR/MULTIPLIER
— TOP VIEW —



CONTROL INPUTS	OUTPUT
EN/MUX C B A L SC	
0 0 0 0 0	S0
0 0 0 0 1	S1
0 0 0 1 0	S2
0 0 0 1 1	S3
0 0 1 0 0	S4
0 0 1 0 1	S5
0 0 1 1 0	S6
0 0 1 1 1	S7
0 1 0 0 0	S8
0 1 0 0 1	S9
0 1 0 1 0	S10
0 1 0 1 1	S11
0 1 1 0 0	S12
0 1 1 0 1	S13
0 1 1 1 0	S14
0 1 1 1 1	S15
1 0 0 0 0	S16
1 0 0 0 1	S17
1 0 0 1 0	S18
1 0 0 1 1	S19
1 0 1 0 0	S20
1 0 1 0 1	S21
1 0 1 1 0	S22
1 0 1 1 1	S23
1 1 0 0 0	S24
1 1 0 0 1	S25
1 1 0 1 0	S26
1 1 0 1 1	S27
1 1 1 0 0	S28
1 1 1 0 1	S29
1 1 1 1 0	S30
1 1 1 1 1	S31

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

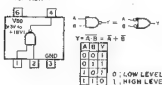
TC4501T (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0: LOW LEVEL
1: HIGH LEVEL

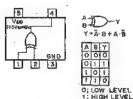
TC4811F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0: LOW LEVEL
1: HIGH LEVEL

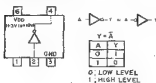
TC450F (TOSHIBA) FLAT PACKAGE
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0: LOW LEVEL
1: HIGH LEVEL

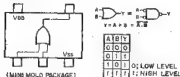
TC4809F (TOSHIBA) FLAT PACKAGE
TC4809F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER BUFFER
— TOP VIEW —



A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL

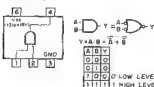
TC4571F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0: LOW LEVEL
1: HIGH LEVEL

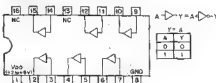
TC4801F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

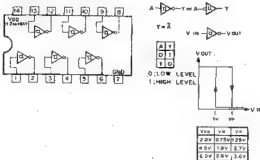
0: LOW LEVEL
1: HIGH LEVEL

TC50H001T (TOSHIBA) FLAT PACKAGE
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



A	Y
0	0
1	1

TC74HC14F (TOSHIBA) FLAT PACKAGE
SN74HC14NS (T) FLAT PACKAGE
C-MOS SCHMITT TRIGGER INVERTER
— TOP VIEW —

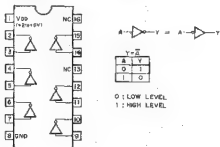


A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL

VDD	VTH
5.0V	1.9V (3.7V)
5.0V	2.8V (3.0V)

TC74HC4059F (TOSHIBA) FLAT PACKAGE
C-MOS HEX BUFFER/CONVERTER (INVERTING)
— TOP VIEW —



A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL

μPC05802 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS

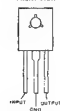
— TOP VIEW —



μPC45702 (NEC)
μPC45702Z OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)
 — TOP VIEW —



μPC78N32H (NEC)
POSITIVE VOLTAGE REGULATOR
 — FRONT VIEW —



OUTPUT VOLTAGE	μPC78N32H
+3V	μPC78N03H
+5V	μPC78N05H
+10V	μPC78N10H
+12V	μPC78N12H
+15V	μPC78N15H
+18V	μPC78N18H
+24V	μPC78N24H



μPC01202 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER (JFET INPUT)
 — TOP VIEW —



TRANSISTOR

TOP VIEW (SCALE 4/1)



2SA1213
25B798

TOP VIEW (SCALE 4/1)



2SC2873
2SD1815A



2SK812

TOP VIEW (SCALE 4/1)



2SA1226
2SA1462
2SA1611
2SA812
25B524

2SK508

TOP VIEW (SCALE 4/1)



2SK183

2SA1463
(SCALE 4/1)
TOP VIEW



2SK820

TOP VIEW (SCALE 2/1)



TOP VIEW (SCALE 4/1)



DTA114VK
(R1 = 10K, R2 = 47K)
DTA144EU



25B907



2SD1221

DTC114EU (R1 = 10K, R2 = 10K)
DTC114YU (R1 = 10K, R2 = 47K)

TOP VIEW (SCALE 4/1)



TOP VIEW (SCALE 4/1)



2SC1009A
2SC1623
2SC2713
2SC2757
2SC3360
2SC3651
2SC4177
2SC4178
2SC4213
2SC586
NTM2369

TOP VIEW (SCALE 4/1)



2SK209
2SK94

TOP VIEW (SCALE 4/1)



DTC146EU
(R1 = 47K, R2 = 47K)



1S1555

TOP VIEW (SCALE 4/1)



1S2835-T1

1S2836

SCALE 4/1

TOP VIEW



TOP VIEW (SCALE 4/1)

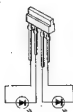


1S2837-T1
1S2838A
DAN202U

TOP VIEW (SCALE 4/1)



1S5123
DA204U
HSM88AS



BR0035 ; RED



TOP VIEW (SCALE 4/1)

E100504



EBR34025 ; RED



ERA81-004



GL-ELR40 ; RED



(SCALE 2/1)

GL-1HD1 ; RED



GP-1554



- BOTTOM VIEW -

GP-2509



HZ 7A PL
HZ 7ALL
HZ 7B PL
HZ 7BL
RD ? YES ?
RD ? YES ?



RD ? ? EL ?



TOP VIEW (SCALE 6/1)

RD ? ? M



S801-05CP



U05C
VIT ?

SECTION 11 SCHEMATIC DIAGRAMS

回路図内において、REF.NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams, the following marks are described near by reference number.
These are parts data at factory.

CAPACITOR(C)		RESISTOR(R) VARIABLE RESISTOR(RV)	
AL	ELECTROLYTIC	RC	CARBON
AS		RD	
TA	TANTALUM	RF	FUSE
CA		RN	
CC	CERAMIC	RS	METAL
CCS		RW	
CM			WIREWOUND
CS			
MPS	MYLAR		
PP			
PS			
PT			
MD	DIPPED MICA		
MS			

CIRCUIT FUNCTION OF THE SCHEMATIC DIAGRAMS

SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
CAMERA	CN-304	Connector PCB for BI-29,30 and 31
	BI-29 BI-30 BI-31	CCD mount
	TG-82P	Timing Generator SERIAL No. 40001-40022
	TG-91P	Timing Generator SERIAL No. 40023 and higher
	PA-120	Pre-amp(Sample & Hold) SERIAL No. 40001-40022
	PA-128	Pre-amp(Sample & Hold) SERIAL No. 40023 and higher
	DR-124	CCD Driver
	VA-104	Video Amp,Black Set,Total Gain Chage,Shading Compensator
	IE-30AP IE-31	Image Enhancer Aperture
	PR-132A	Gamma,Masking,Knee,Slope, W.Clip,Dynamic Contrast Control
	EN-79P	Y/R-Y/B-Y Signal Generator for VTR,Encoder, Color Bars Generator
	SG-152AP SG-157	Sync Generator,Genlock for TC,Sub-regulator
	AT-49A	Auto white/black Function, VF Character Generator, System Controller, Audio Level Detector
	SW-220	SAVE-STBY,Color Bars ON/OFF, DCC ON/OFF, Memory A/B/Preset SW
	SW-357B	Auto White/Black SW VTR Start/Stop SW Shutter ON/OFF Select
	VR-77	Master Black VR
	IF-298	2P Interface,Logic VF Marker Gen.

SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
VIDEO	VDA-11P	CTDM and C-Modulator
	AFM-6P	Y-Modulator,AFM
AUDIO	VP-24P	Video Playback, Head Select Pulse Generator
	AU-97P	Audio REC/PB Processor
	TB-5	Terminal Board,Audio Confl PB
SERVO	FL-55P	Audio Head AMP,Relay Board for TB and A/T Head
	SV-97AP	Drum/Capslan Servo
SYSTEM CONTROL	SY-117CP	System Control
	KY-124	Function Key Board
TIME CODE	TC-48AP	Time Code Generator,Audio Level Control, Audio Monitor AMP,SW and Indicator for Audio and TC
	VR-70	Volume
POWER	PS-182	Power Distributor
SENSOR	FE-4	Full Erase, Dew and End Sensor
	LD-21	Loading Motor Driver and END Sensor
	SR-40	Mechanical Position Sensor

CTION

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lead Select

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slo Monitor

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End Sensor

er and END

on Sensor

SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
OTHERS	MB-317P	Mother Board
	SW-291	Back Tally
	FL-45	Relay Board for MB and TC
	FL-46	Relay Board for MB and TC
	FL-53	Relay Board for TB and SR
	FL-57	Relay Board for PS and TC
	EX-148	Extension Board

SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
VIEW-FINDER	VF-32	Drive and Video Amp for Viewfinder, Peaking Signal Generator
	LP-58	BATT/TALLY, VTR SAVE LED
	LP-40	REC LED
	LP-42	Front Tally LED
	VR-67	Contrast, Bright, Peaking, Audio Level(CH-1) VR
	SW-260A	Tally ON/OFF, Audio Level Indicator ON/OFF, Zebra/Marker ON/OFF SW

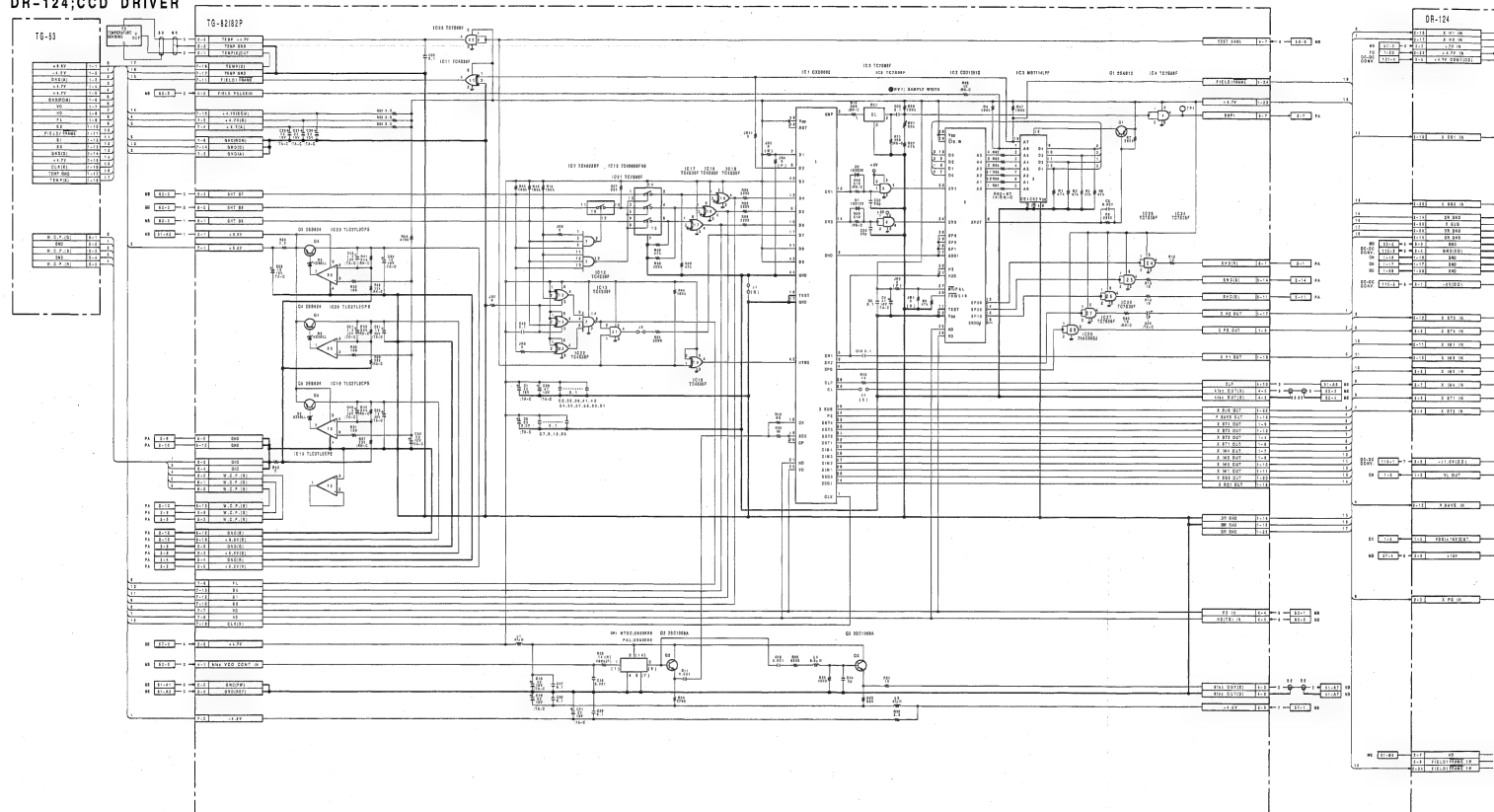
CCD BLOCK(1/2)

TG-53;SUB TIMING GENERATOR

TG-82P;TIMING GENERATOR

DR-124;CCD DRIVER

S/N:40001 through 40022



11-5(a)

11-6(a)

A

B

C

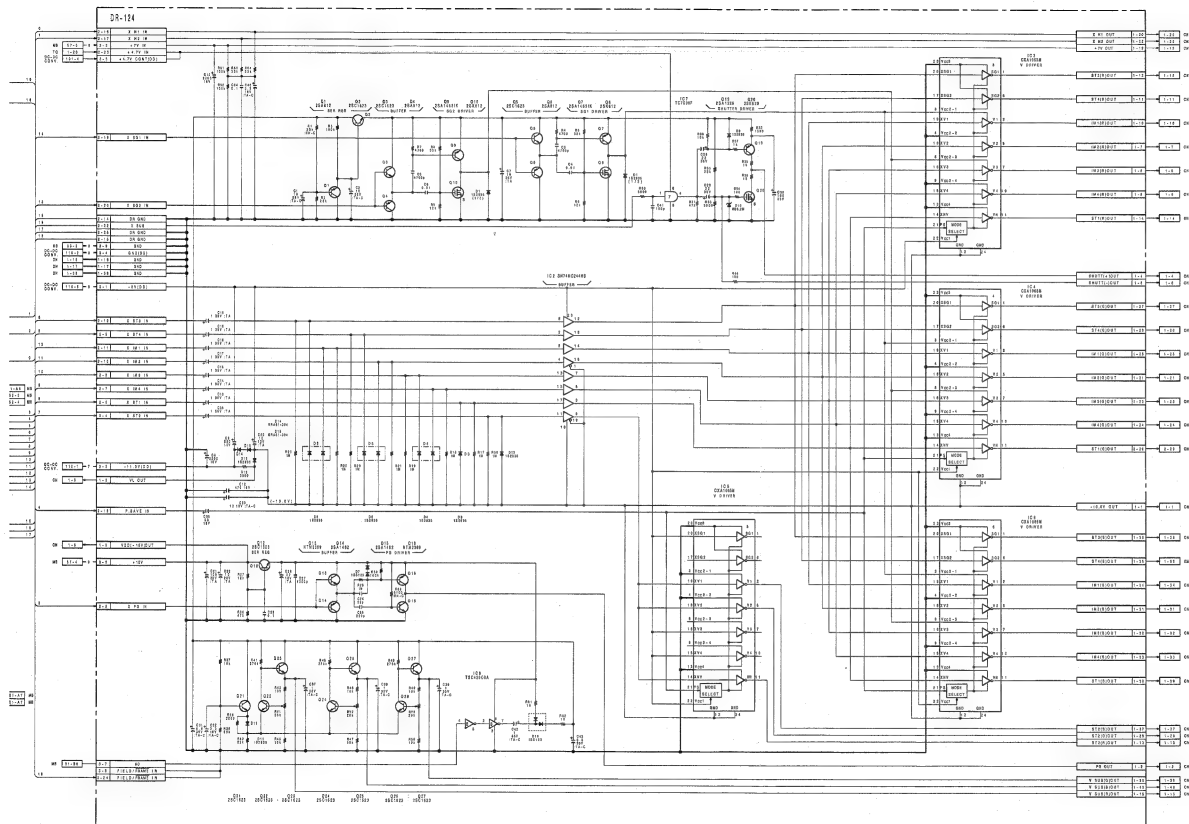
D

E

F

G

H



11-7 (a)

11-8 (a)

CCD BLOCK (1/2)
TG-82/TG-82P BOARD
 1-834-900-11
DR-124 BOARD

BVW-400(J) : 530001-30114
 BVW-400(UC) : 510001-10051
 BVW-400(EK) : 540001-40022

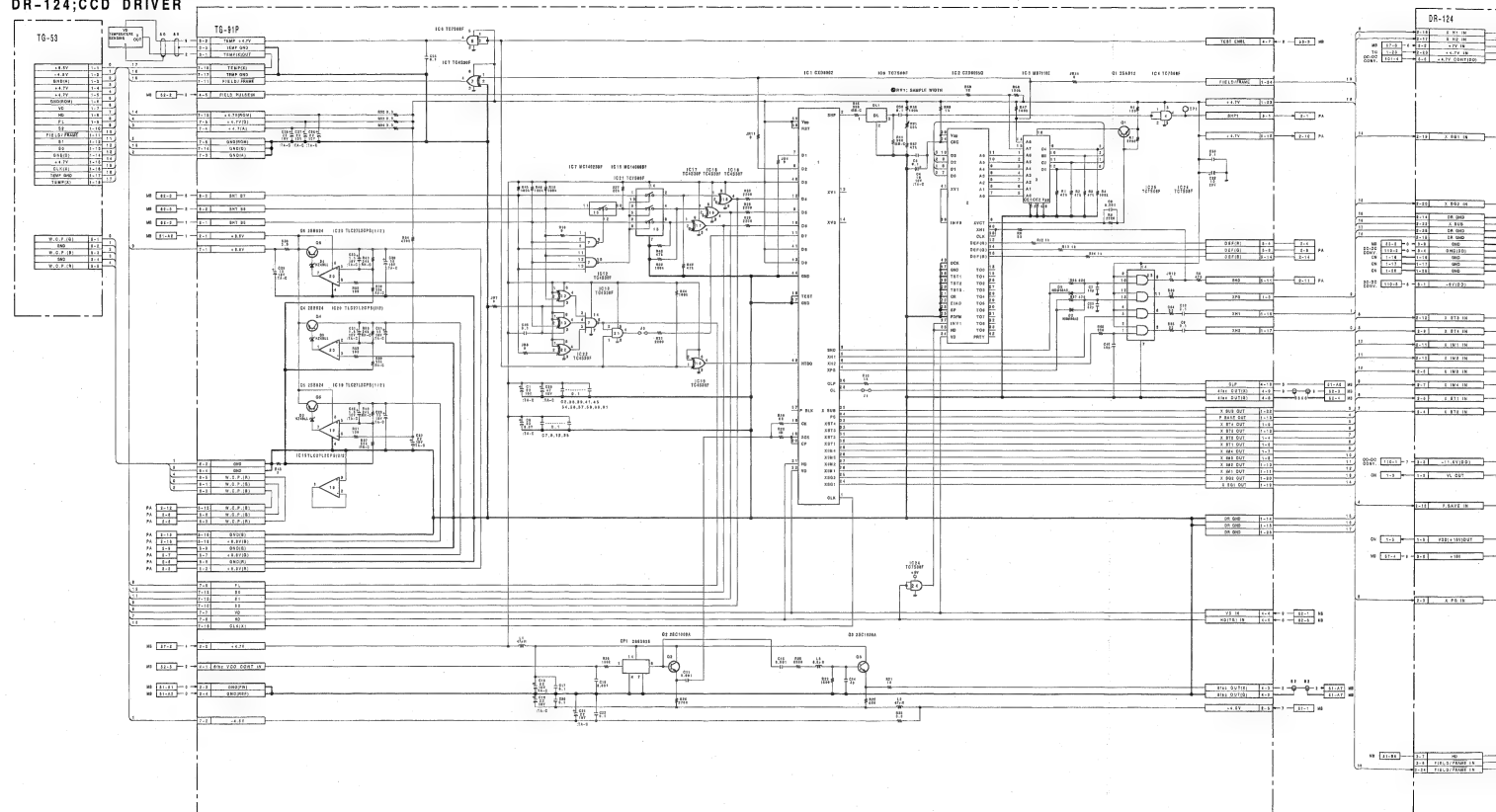
CCD BLOCK(1/2)

TG-53;SUB TIMING GENERATOR

S/N;40023 and higher

TG-91P;TIMING GENERATOR

DR-124;CCD DRIVER



11-5(b)

11-6(b)

A

B

C

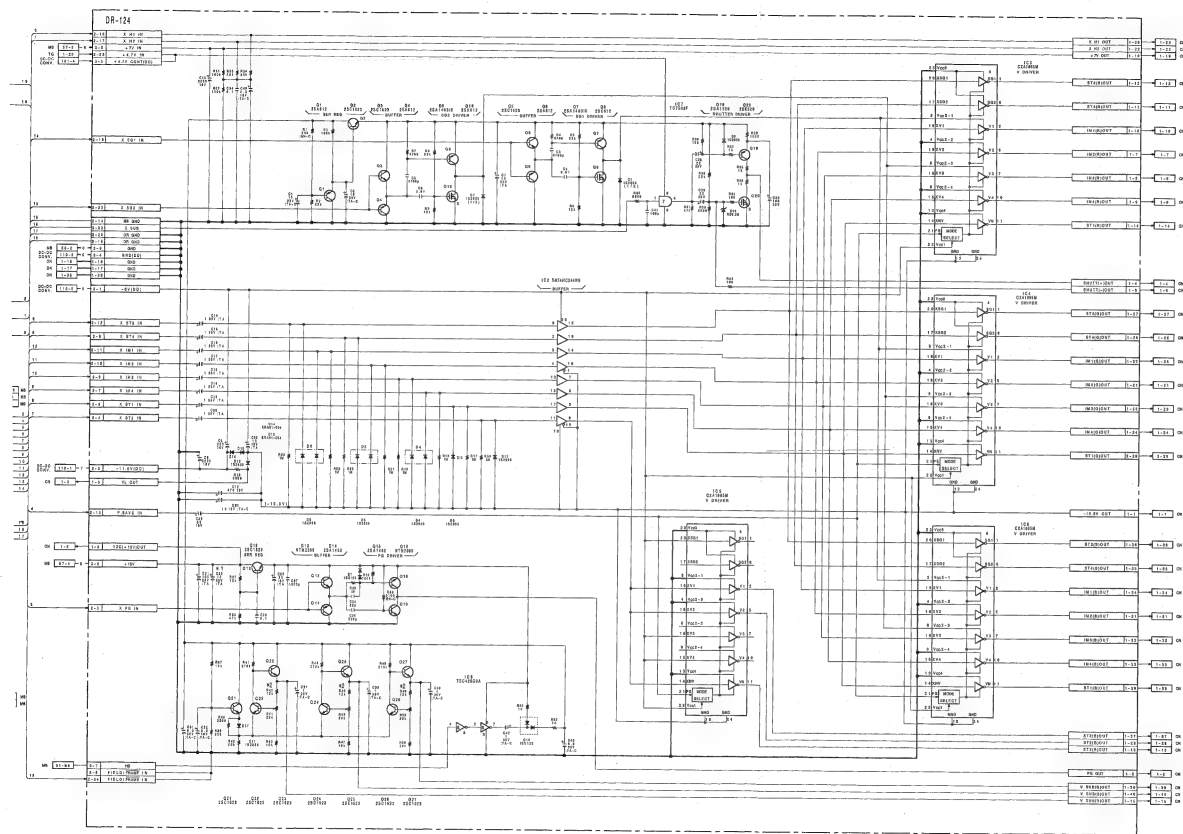
D

E

F

G

H



NOTE:		
NO.	DESCRIPTION	REMARKS
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
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91	91	91
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99	99	99
100	100	100

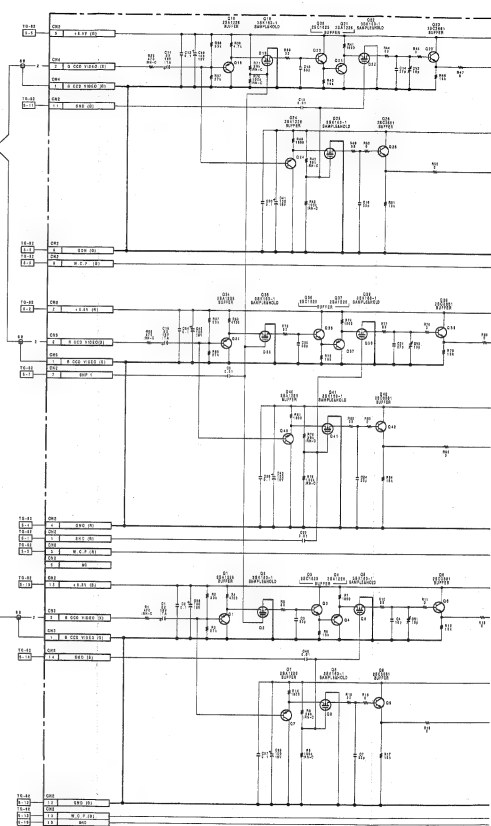
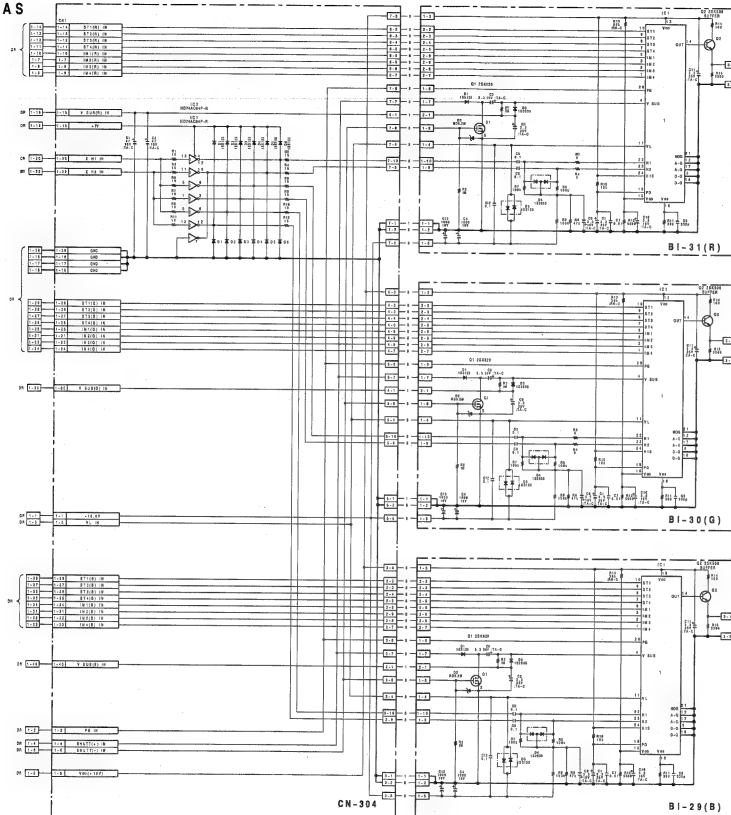
CCD BLOCK(1/2)
TG-91P BOARD
1-524-982-11
DR-124 BOARD
1-524-982-11
SVM-600P/20/400021-

11-7(b)

11-8(b)

S/N:40001 through 40022

CCD BLOCK(2/2)
BI-29,BI-30,BI-31;CCD BIAS
CN-304;CONNECTOR
PA-120;CCD PREAMP



11-12(a)

11-13(a)

A

B

C

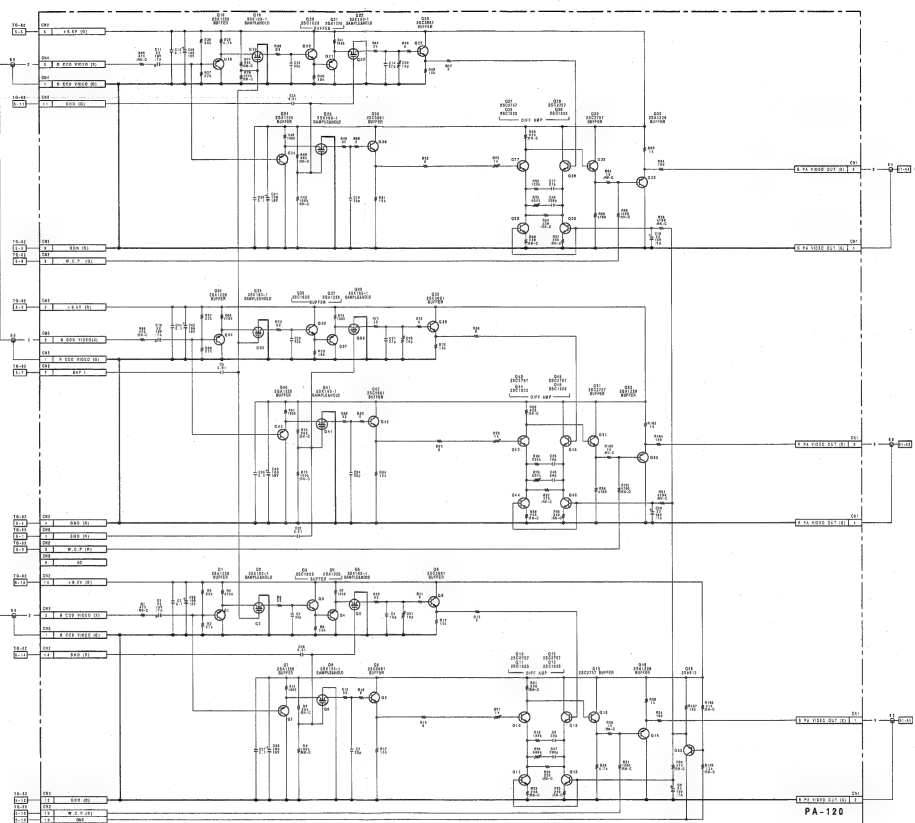
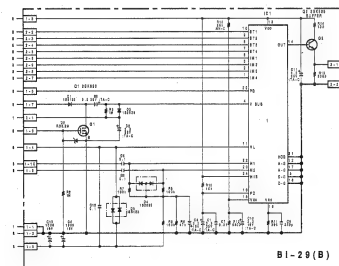
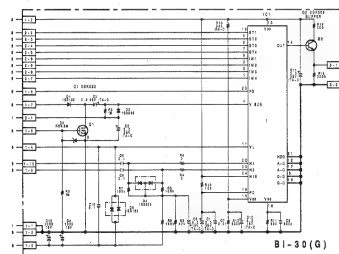
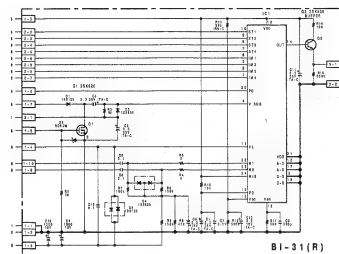
D

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G

H



PA-120 BOARD

1-834-981-11

BI-29 BOARD

1-830-554-12

BI-30 BOARD

1-830-555-11

BI-31 BOARD

1-830-556-11

CN-304 BOARD

1-830-557-11

SVW-400 (J) : 10001-30114

SVW-400 (UC) : 10001-10051

SVW-400P (ER) : 140001-40022

11-13(a)

11-14(a)

E

F

G

H

I

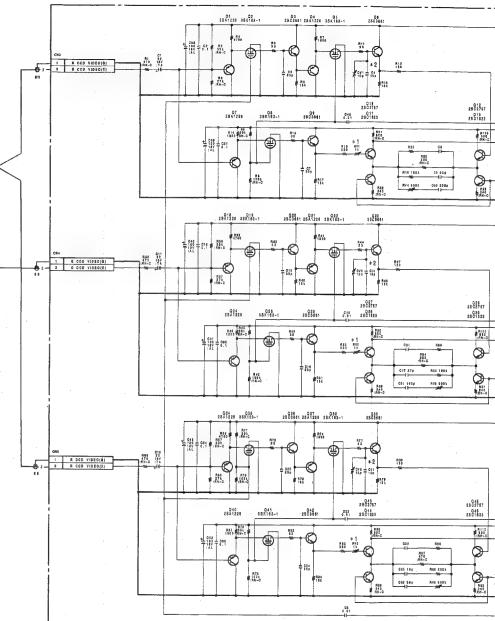
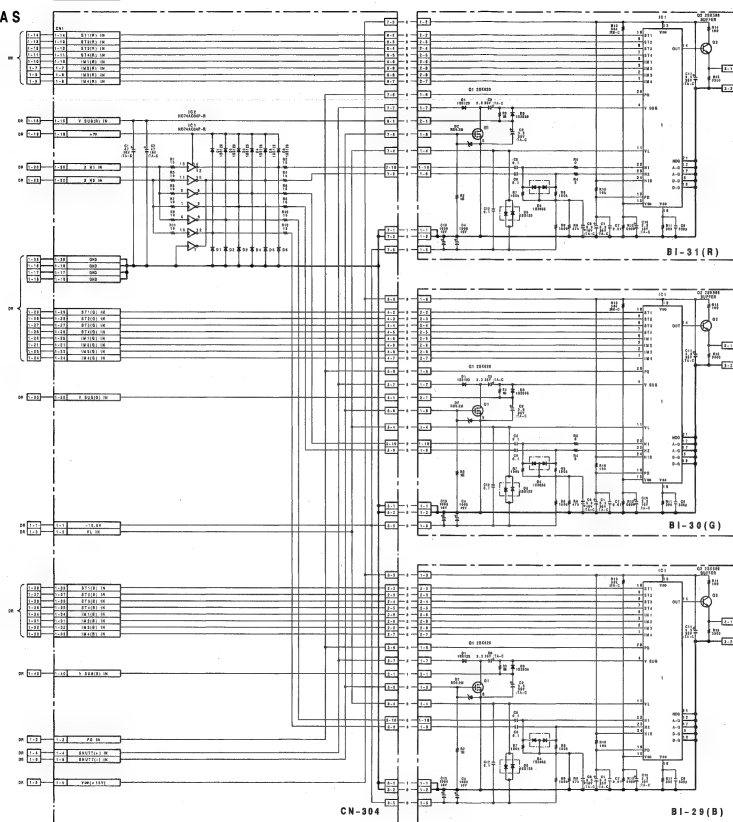
J

K

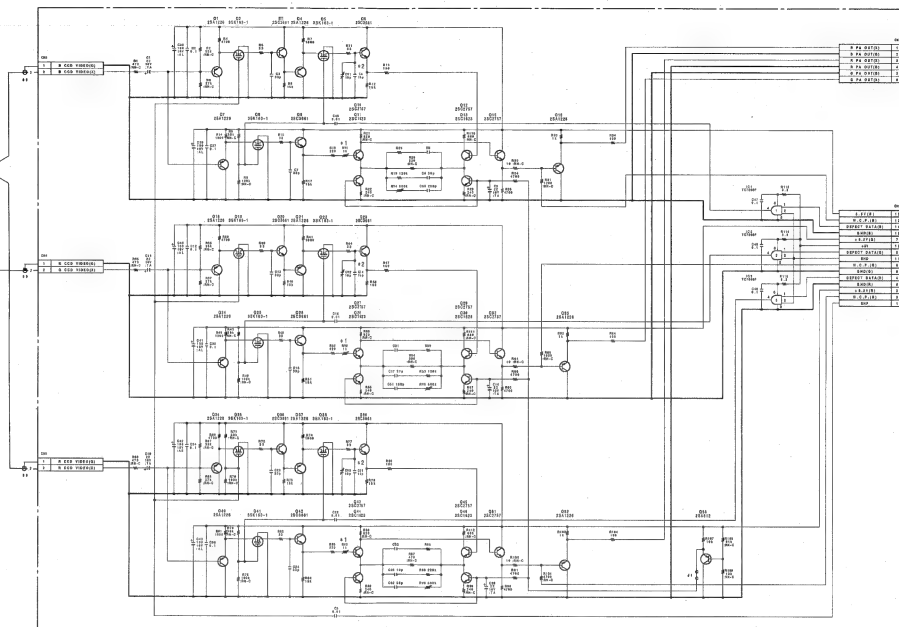
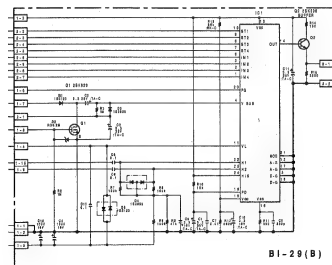
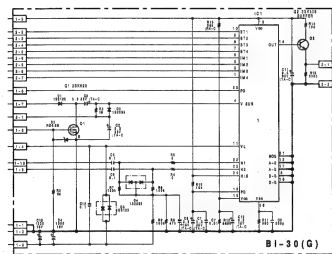
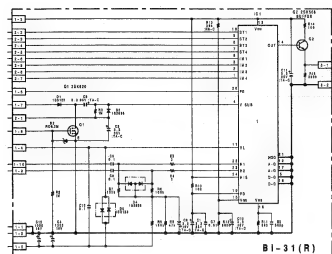
L

CCD BLOCK(2/2)
BI-29,BI-30,BI-31;CCD BIAS
CN-304;CONNECTOR
PA-128;CCD PREAMP

S/N;40023 and higher



REV	DATE	BY	CHKD
1	11-12-83	WJ	WJ
2	11-12-83	WJ	WJ



PA-128 BOARD
1-830-737-11

B1-29 BOARD
1-830-554-12

B1-30 BOARD
1-830-555-11

B1-31 BOARD
1-830-556-11

CN-304 BOARD
1-830-557-11
BVW-400P (E.K); 740023-

NOTE:		
NAME	CHANGE INFORMATION	SERIAL NO.
#1	REV. 001, 012	
#2	REV. 001, 012	00001-
#3	REV. 001, 012	

11-13(b)

11-14(b)

E

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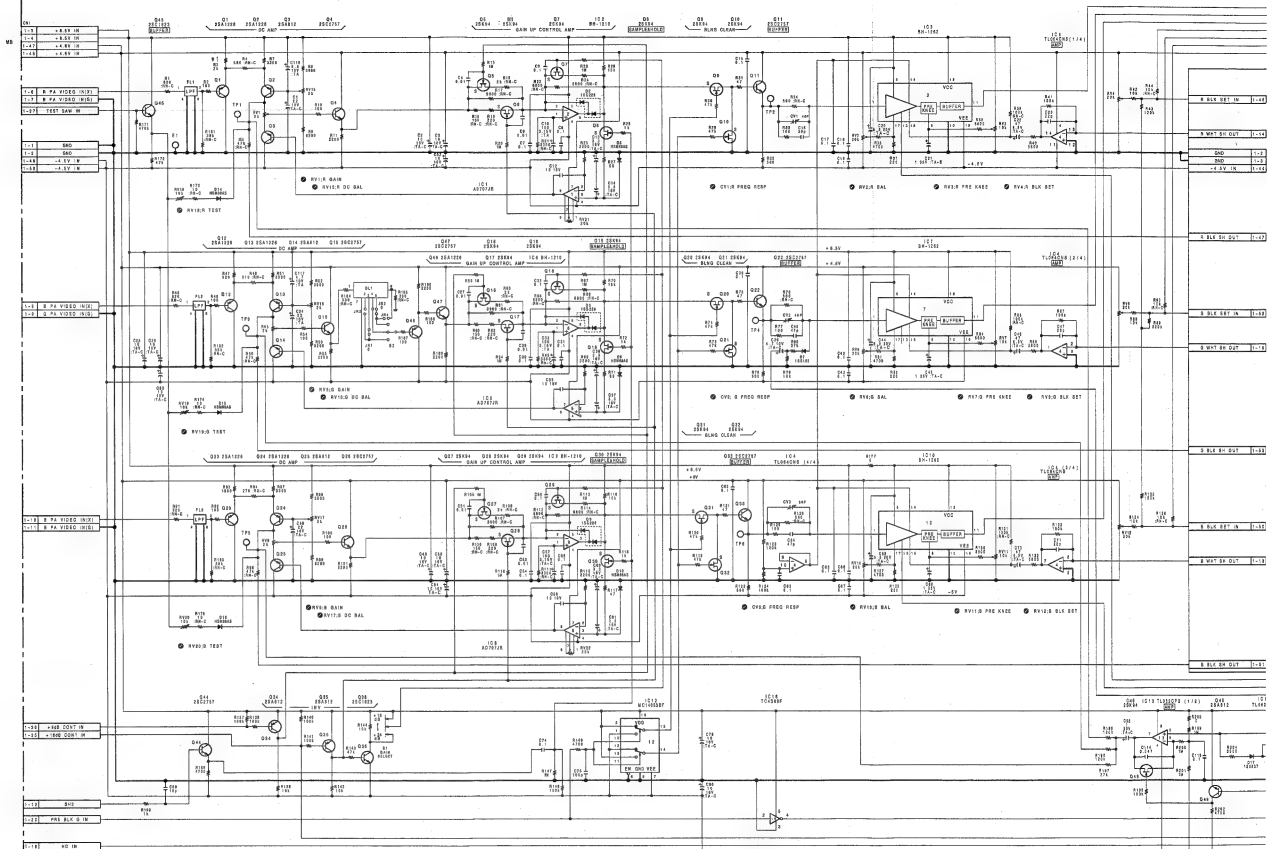
J

K

L

VA-104; VIDEO AMP, BLACK SET, SHADING COMPE

S/N: 40001 through 40199



11-18(a)

11-19(a)

A

B

C

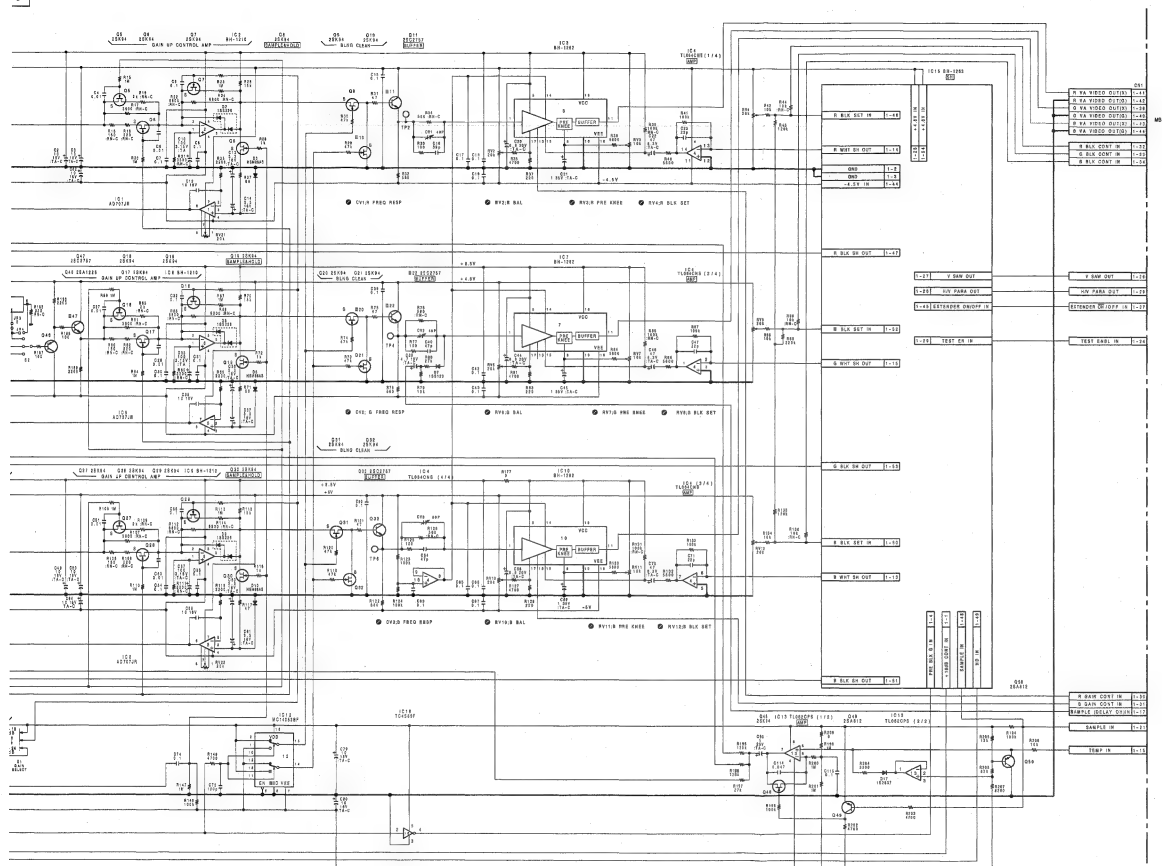
D

E

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G

H



11-19(a)

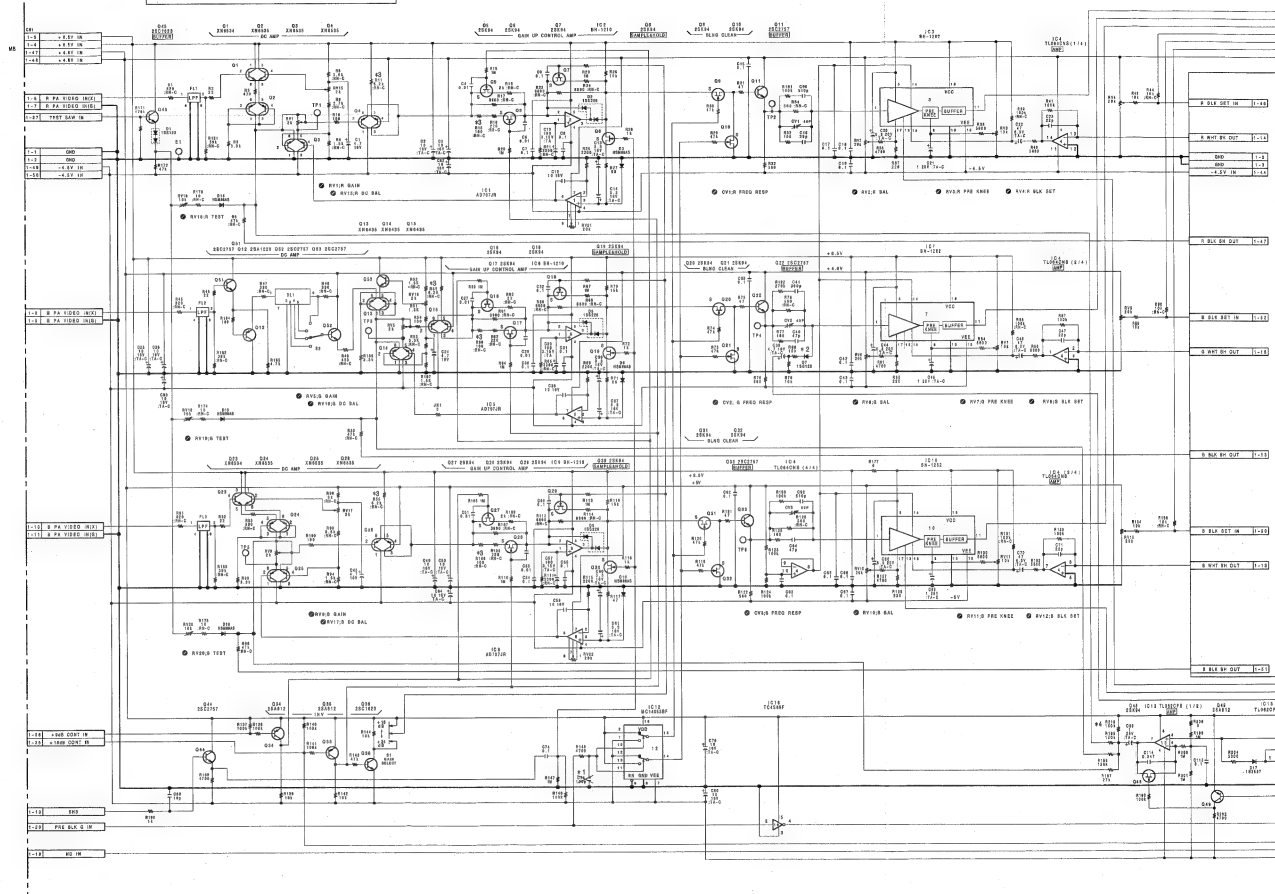
11-20(a)

VA-104 BOARD

1-834-865-11

BVW-400P (EX); 40001-40199

/A-104;VIDEO AMP,BLACK SET,SHADING COMPE S/N 40200 and higher



11-18(b)

11-19(b)

A

B

C

D

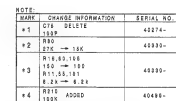
E

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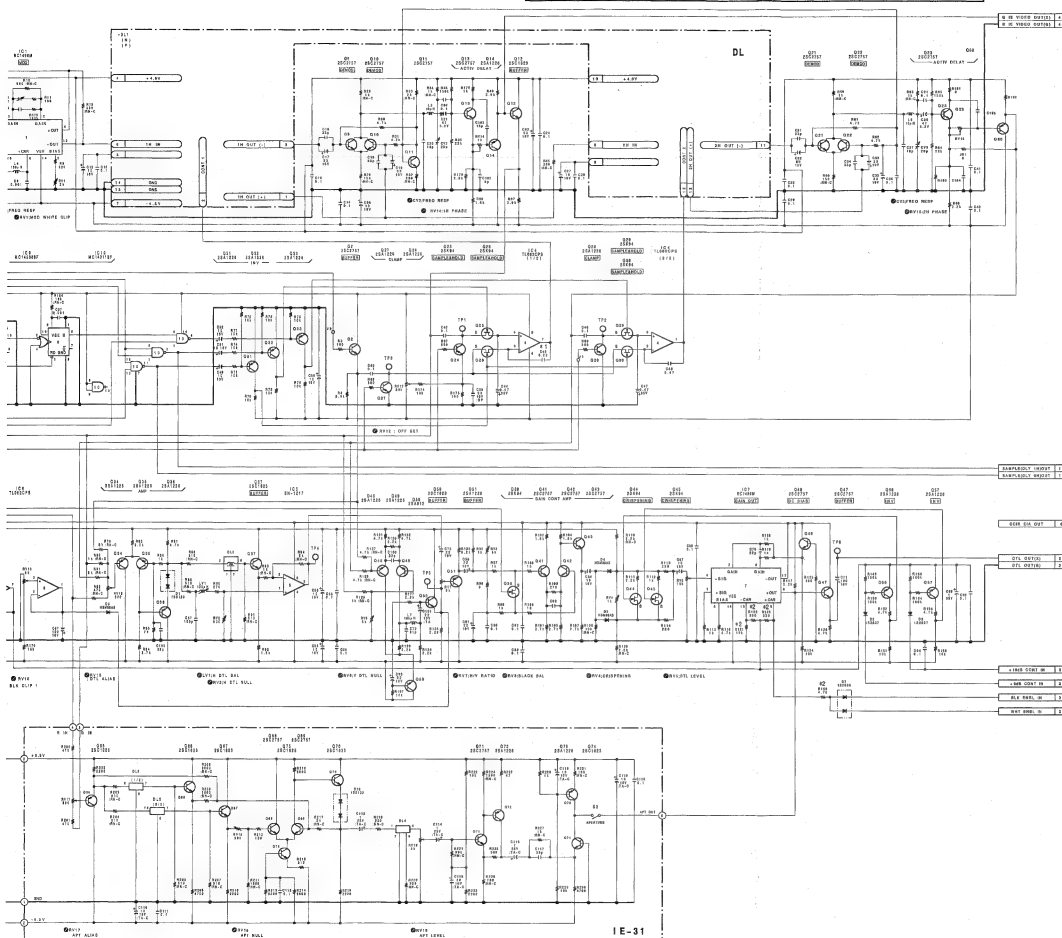
I



11-20(b)

11-24



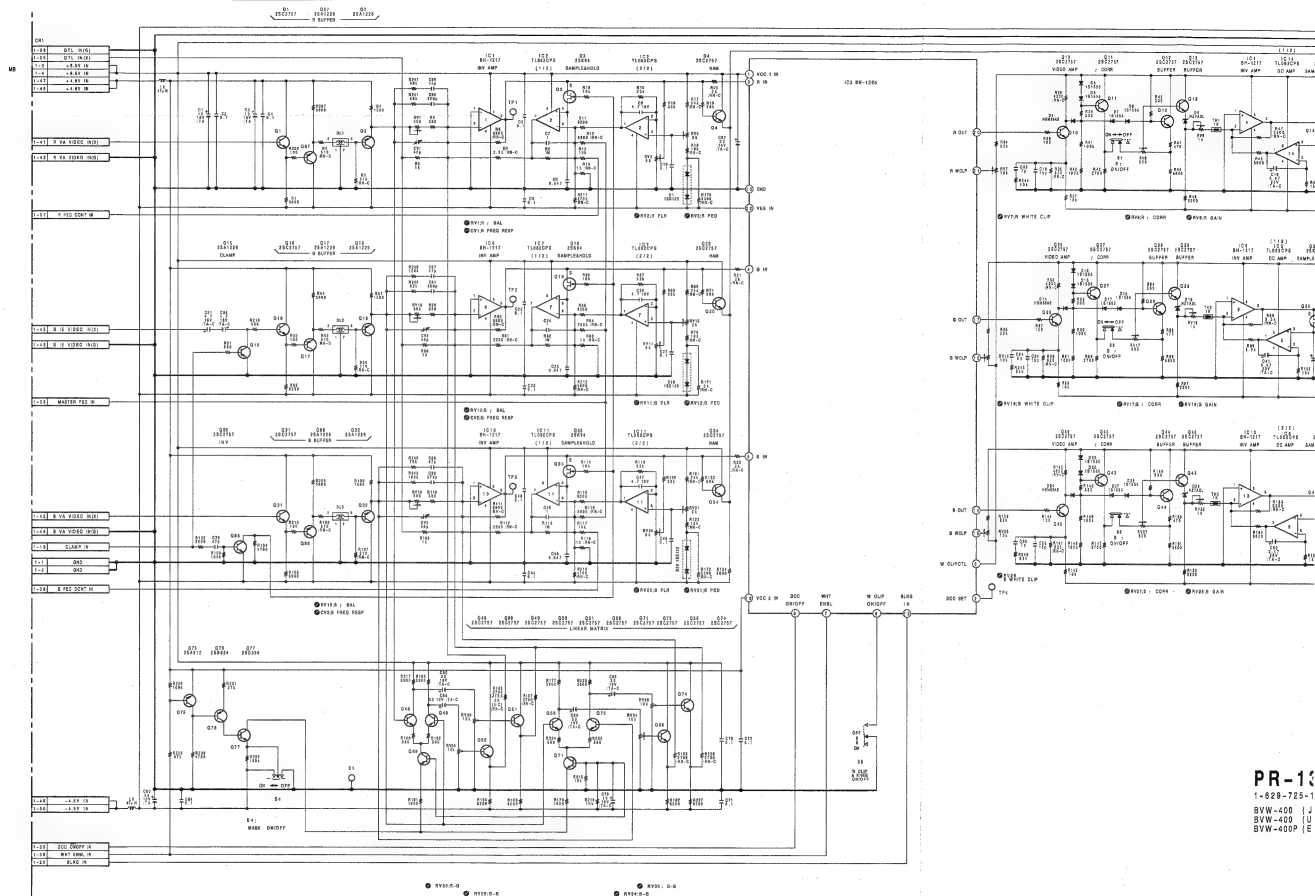


MARK	CHANGE INFORMATION	SERIAL NO.
#1	C48 9.47 → 2.22	40200-
#2	R121 } 5.40 → 12K R122 } 140 → 330 R123 } R124 }	40804-

IE-30A/30AP BOARD
1-634-945-12
IE-31
1-636-346-11
BVW-400P (E K):#40001-

PR-132A; GAMMA, MASKING, KNEE, SLOPE, W CUP, DCC

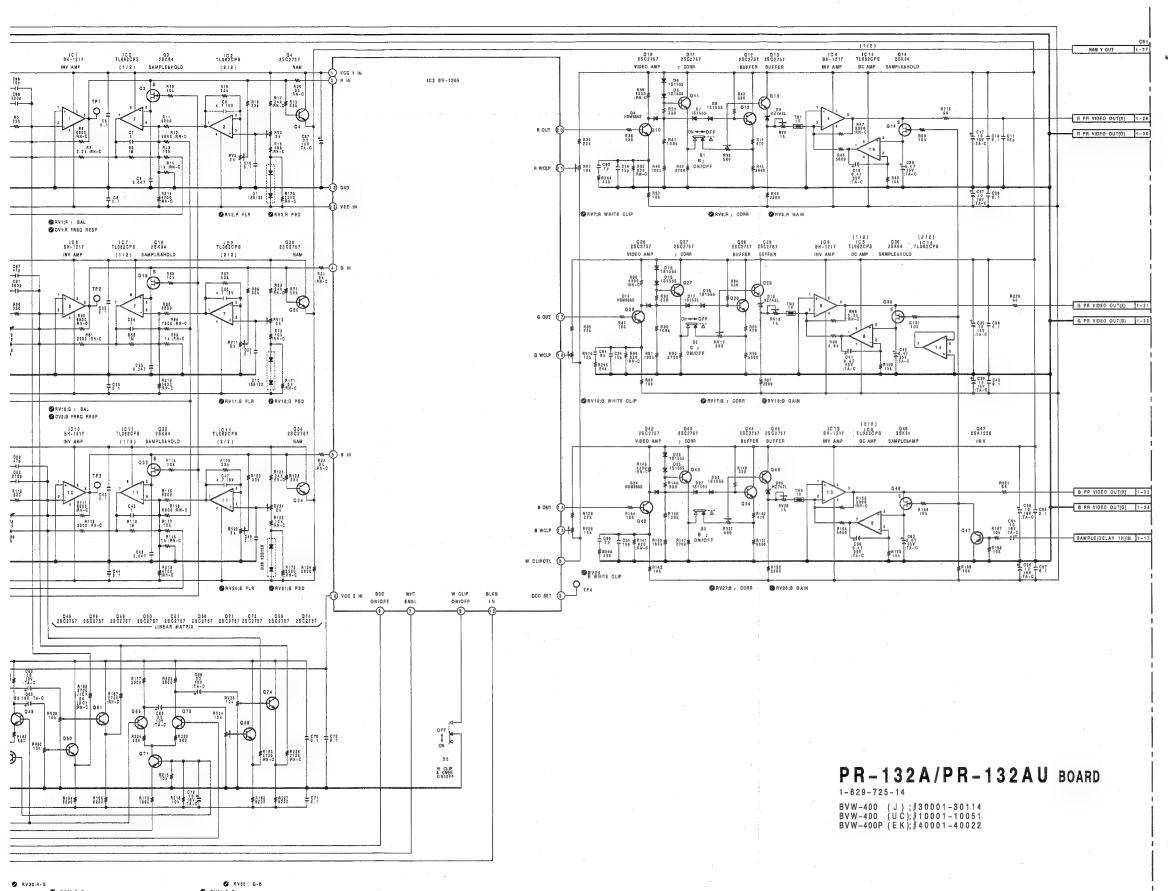
S/N: 40001 through 40022



11-30(a)

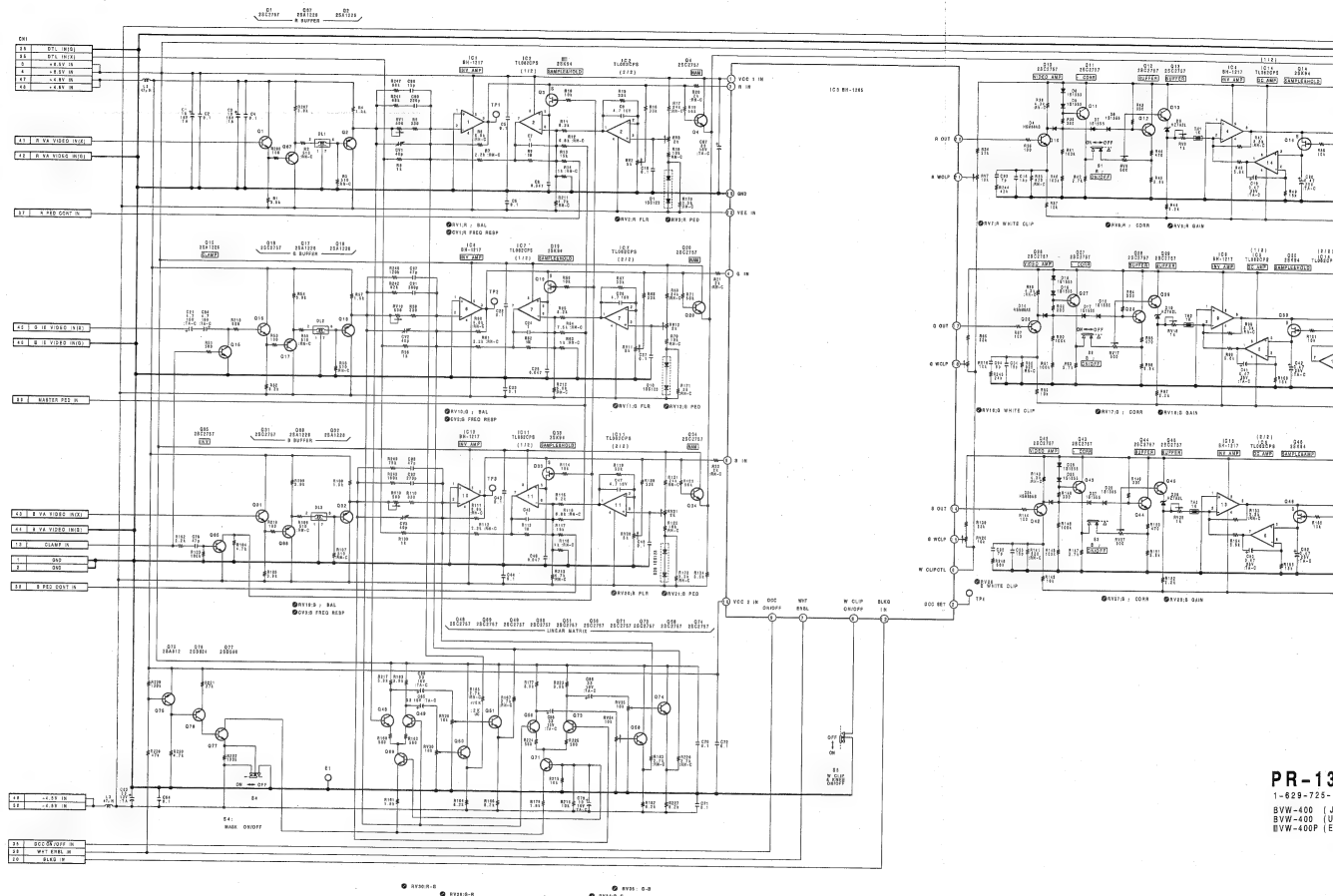
11-31(a)

PR-132A
1-628-725-1
BVW-400 (J)
BVW-400 (U)
BVW-400P (E)



PR-132A/PR-132AU BOARD

1-829-725-14
 BYW-400 (J) : 30001-30114
 BYW-400 (UC) : 10001-10051
 BYW-400P (EK) : 40001-40022



11-30(b)

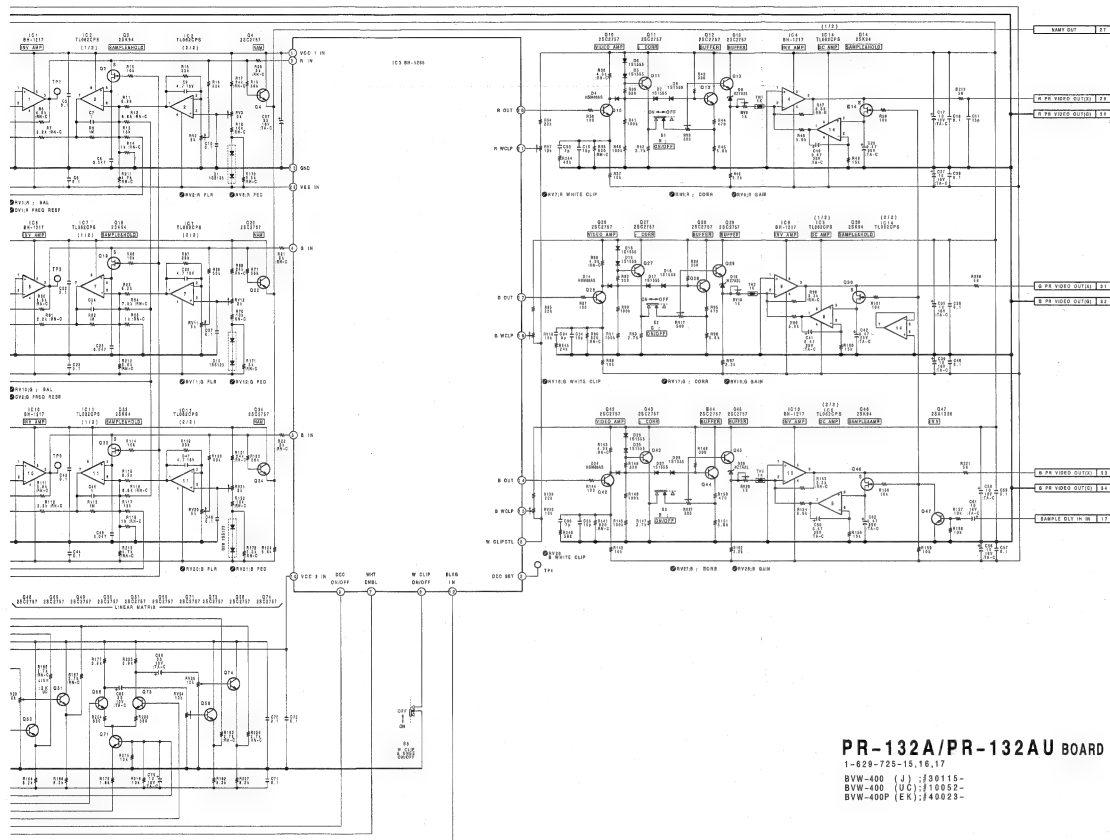
11-31(b)

PR-13

 1-629-725-
 BVW-400 J
 BVW-400 U
 BVW-400 E

and higher

PR-132A PR-132A



11-31(b)

11-32(b)

E

F

G

H

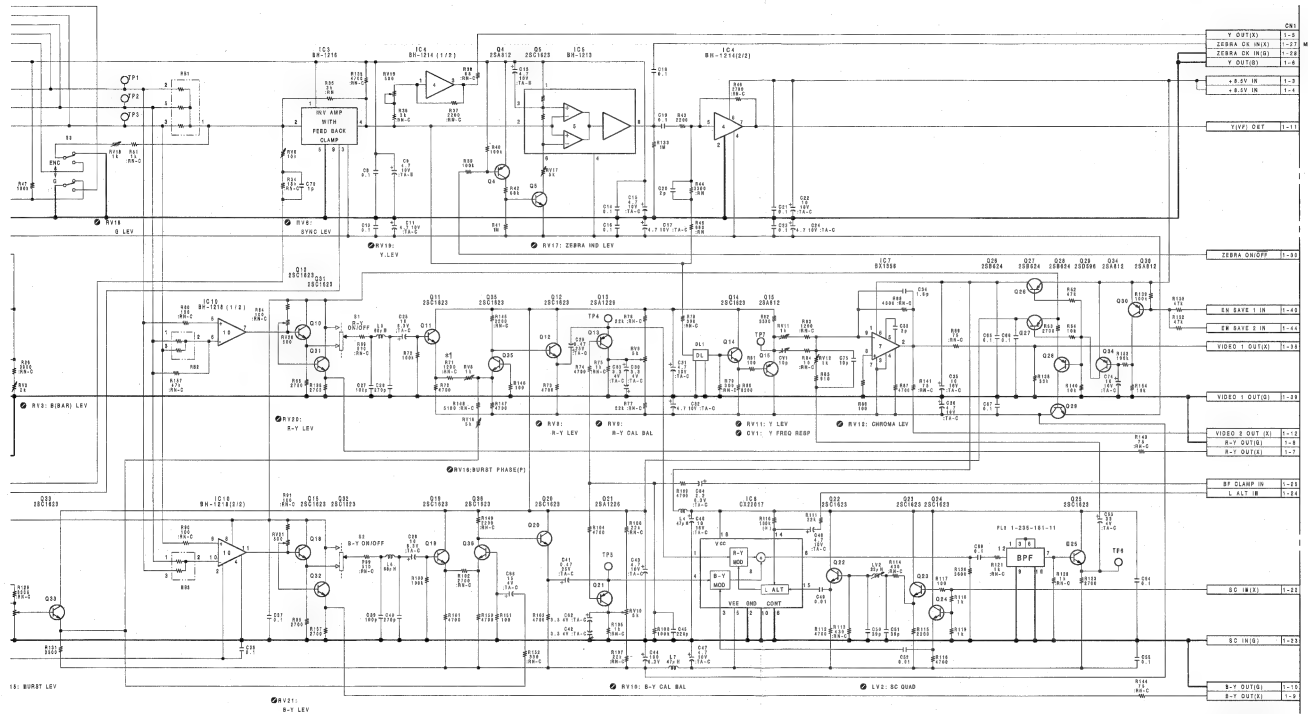
I

J

K

L

MARK	CHANGE PARTS	SERIAL NO.
#1	R71 1500 → 1200	41604-



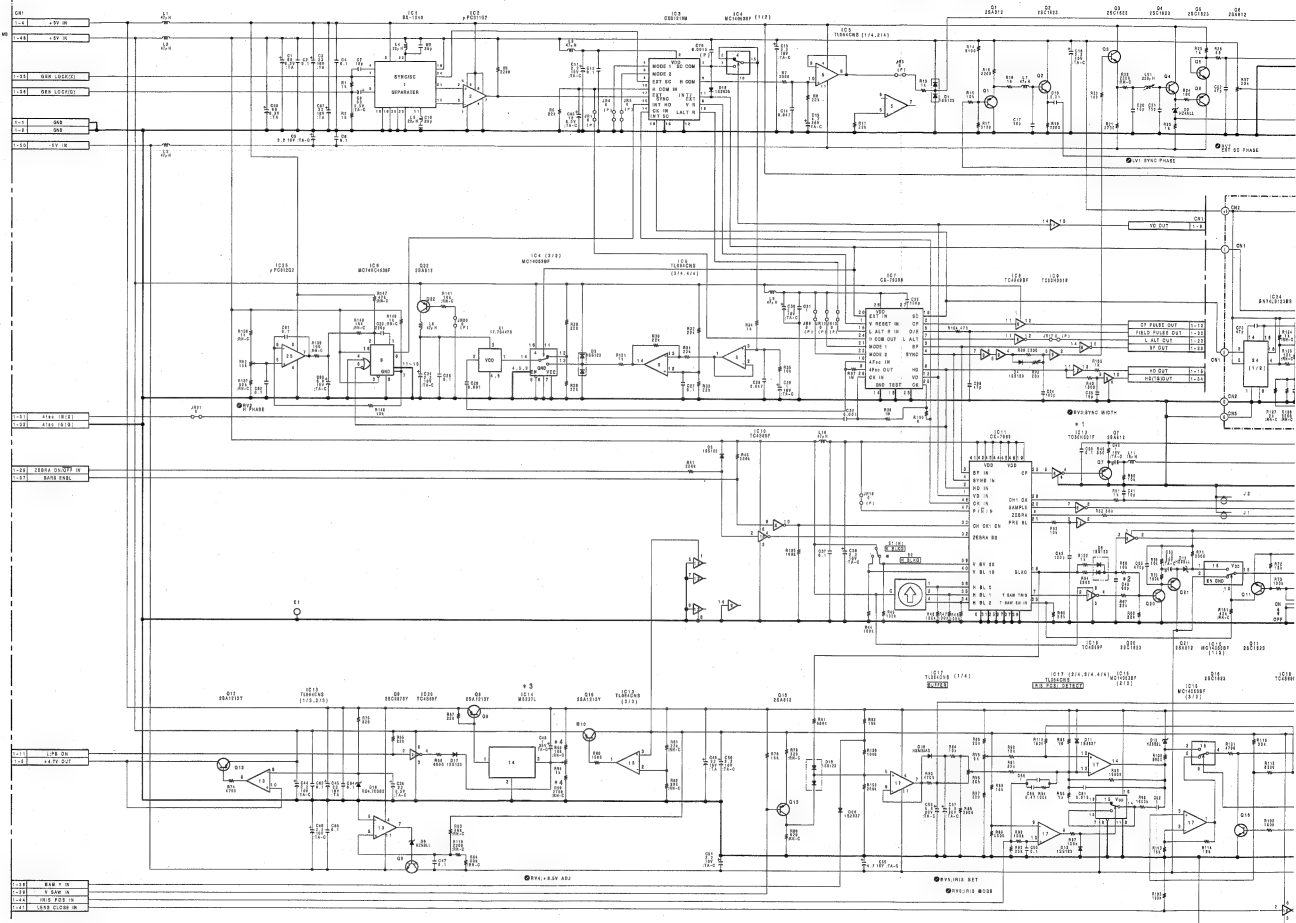
MARK	CHANGE PARTS	SERIAL NO.
#1	R71 1500 — 1000	41624-

EN-79P BOARD

1-629-727-13,14

BVW-400P (EK); 84001-

SG-152AP:SYNC GEN
SG-157P:SC PHASE



11-42

11-43

A

B

C

D

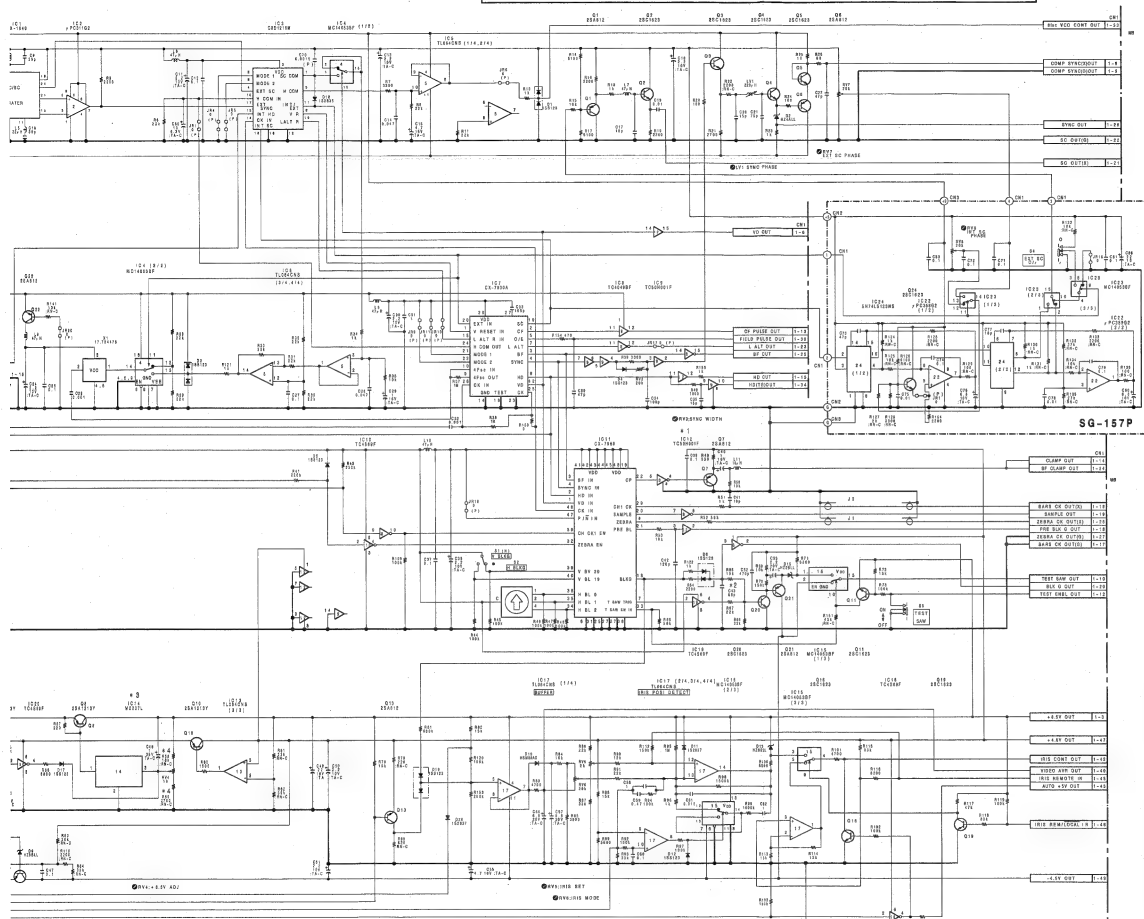
E

F

G

H

SG-152AP,SG-157P SG-152AP,SG-157P



NOTE

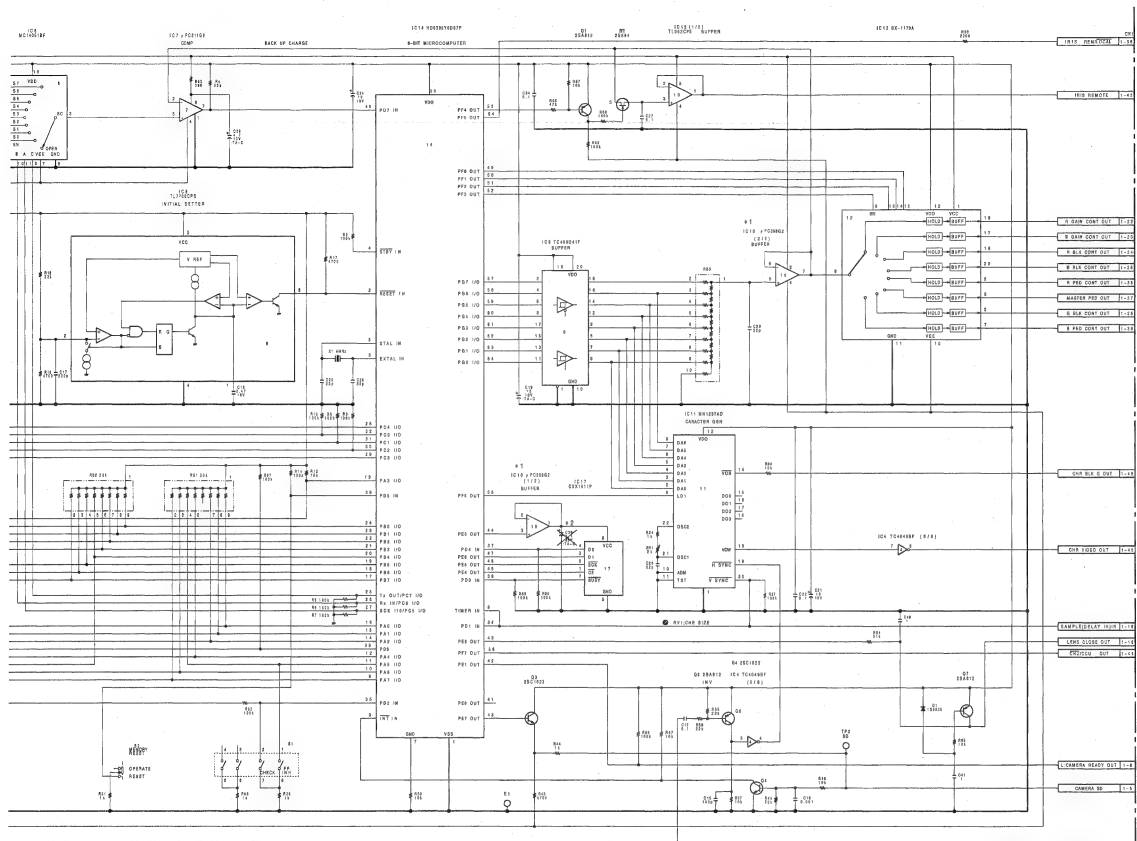
NO.	CHANGE INFORMATION	REASON
#1	7410	7410-1
#2	7411	7411-1
#3	7412	7412-1
#4	7413	7413-1
#5	7414	7414-1
#6	7415	7415-1
#7	7416	7416-1
#8	7417	7417-1
#9	7418	7418-1
#10	7419	7419-1
#11	7420	7420-1
#12	7421	7421-1
#13	7422	7422-1
#14	7423	7423-1
#15	7424	7424-1
#16	7425	7425-1
#17	7426	7426-1
#18	7427	7427-1
#19	7428	7428-1
#20	7429	7429-1
#21	7430	7430-1
#22	7431	7431-1
#23	7432	7432-1
#24	7433	7433-1
#25	7434	7434-1
#26	7435	7435-1
#27	7436	7436-1
#28	7437	7437-1
#29	7438	7438-1
#30	7439	7439-1
#31	7440	7440-1
#32	7441	7441-1
#33	7442	7442-1
#34	7443	7443-1
#35	7444	7444-1
#36	7445	7445-1
#37	7446	7446-1
#38	7447	7447-1
#39	7448	7448-1
#40	7449	7449-1
#41	7450	7450-1
#42	7451	7451-1
#43	7452	7452-1
#44	7453	7453-1
#45	7454	7454-1
#46	7455	7455-1
#47	7456	7456-1
#48	7457	7457-1
#49	7458	7458-1
#50	7459	7459-1
#51	7460	7460-1
#52	7461	7461-1
#53	7462	7462-1
#54	7463	7463-1
#55	7464	7464-1
#56	7465	7465-1
#57	7466	7466-1
#58	7467	7467-1
#59	7468	7468-1
#60	7469	7469-1
#61	7470	7470-1
#62	7471	7471-1
#63	7472	7472-1
#64	7473	7473-1
#65	7474	7474-1
#66	7475	7475-1
#67	7476	7476-1
#68	7477	7477-1
#69	7478	7478-1
#70	7479	7479-1
#71	7480	7480-1
#72	7481	7481-1
#73	7482	7482-1
#74	7483	7483-1
#75	7484	7484-1
#76	7485	7485-1
#77	7486	7486-1
#78	7487	7487-1
#79	7488	7488-1
#80	7489	7489-1
#81	7490	7490-1
#82	7491	7491-1
#83	7492	7492-1
#84	7493	7493-1
#85	7494	7494-1
#86	7495	7495-1
#87	7496	7496-1
#88	7497	7497-1
#89	7498	7498-1
#90	7499	7499-1
#91	7500	7500-1

SG-152AP BOARD
1-629-762-24,25

SG-157P BOARD
1-629-726-13

BVW-400P (E.K.):#40001-





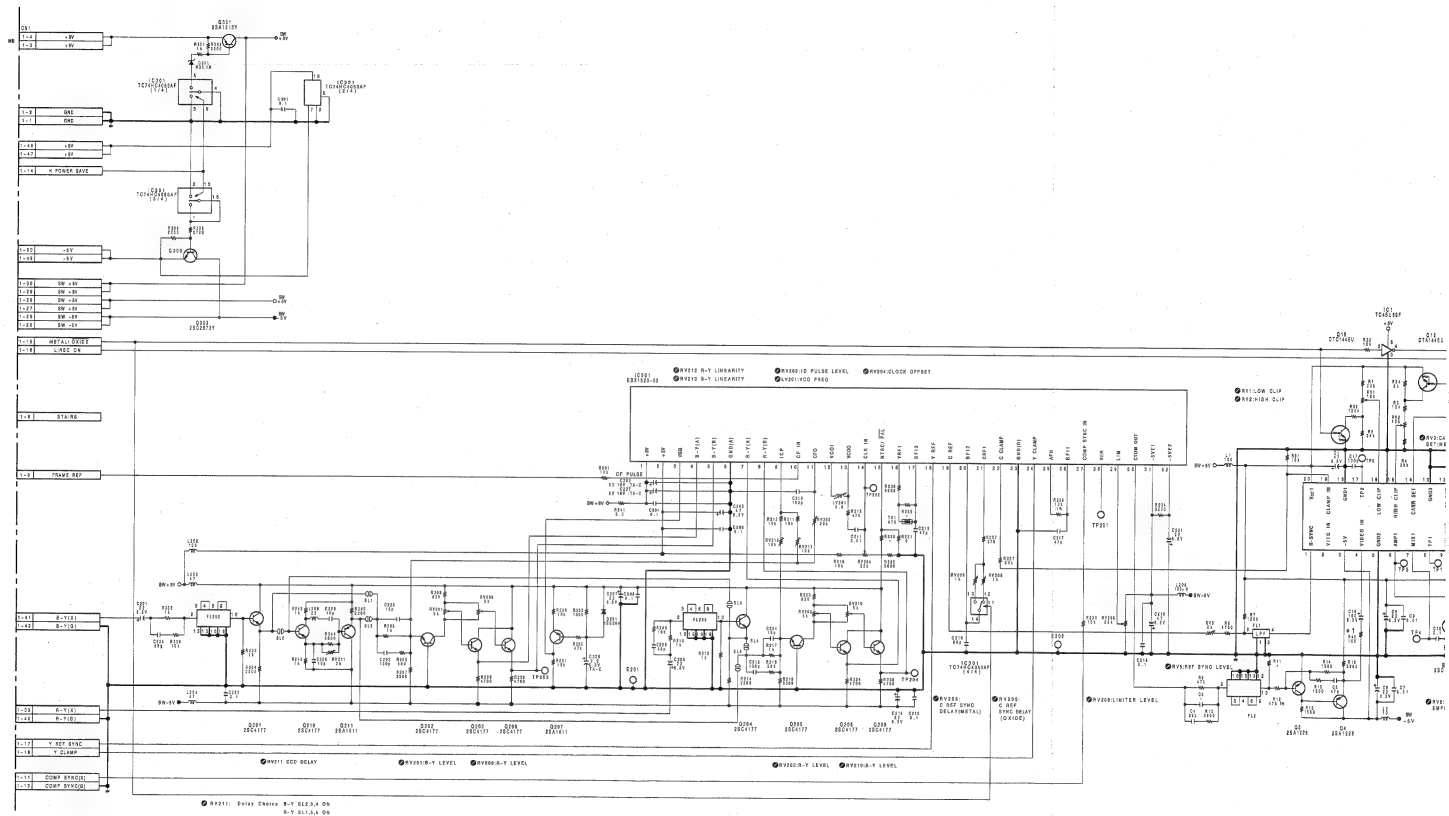
AT-49A BOARD

1-825-097-14
 BVW-400 (J); J30001-
 BVW-400 (UC); 10001-
 BVW-400P (E); J40001-

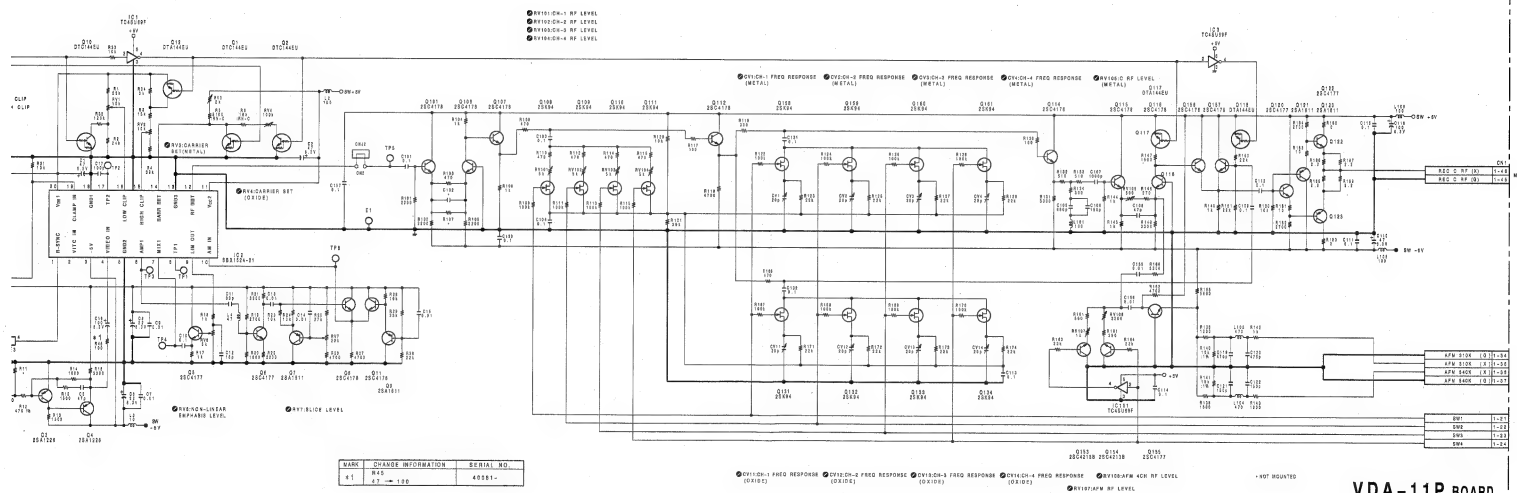
NOTE:

NAME	CHANGE INFORMATION	REVISED NO
V1	1018	42413-
V2	11000000	42413-
V3	10000000	42413-

VDA-11P;CTDM AND C-MODULATOR



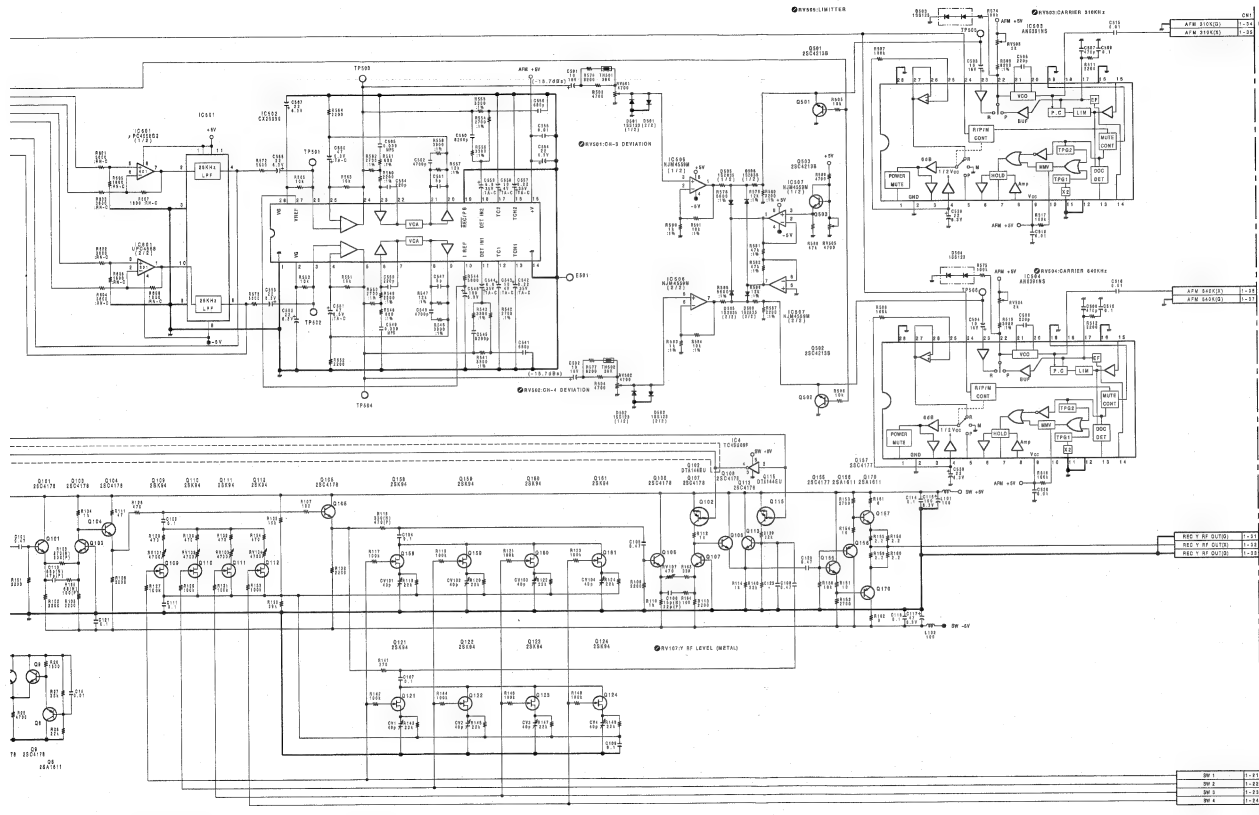
VDA-11P	VDA-11P
---------	---------



VDA-11P BOARD
1-825-541-18
BVW-400P (EK):F40001-

11-64





AFM-6/6P BOARD

21	1-625-542-17
22	
23	BVW-400 (J) : 30001-
24	BVW-400 (UC) : 10001-
	BVW-400P (EK) : 40001-

- RV101:CH-1 RF LEVEL
- RV102:CH-2 RF LEVEL
- RV103:CH-3 RF LEVEL
- RV104:CH-4 RF LEVEL

☒ CV101:CH-1 FREQ RESPONSE (METAL)
☒ CV101:CH-1 FREQ RESPONSE (OILS)

- ② CV100:CR-2 FREQ RESPONSE (METAL)
- ② CV2:CR-2 FREQ RESPONSE (OXIDE)

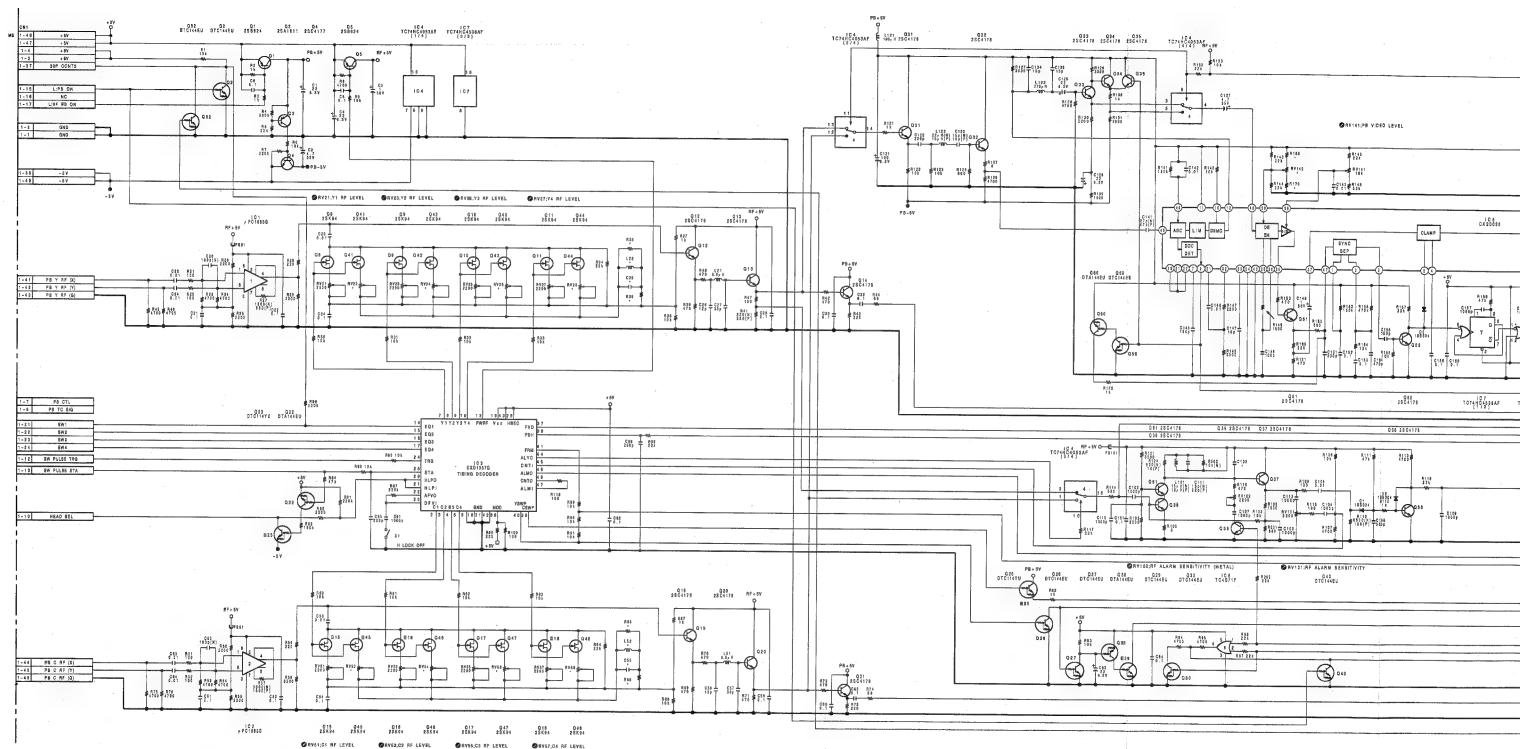
☒ CV183:GH-3 FREQ RESPON
(METAL)
☒ CV2:CH-3 FREQ RESPONSE
(OXIDE)

USE ☒ CH34:CH-4 FREQ RESPON
(METAL)
☒ CH4:CH-4 FREQ RESPONSE
(OXIDE)

100

• NOT LIMITED

VP-24P; VIDEO PB



11-70

11-71

A

B

C

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E

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G

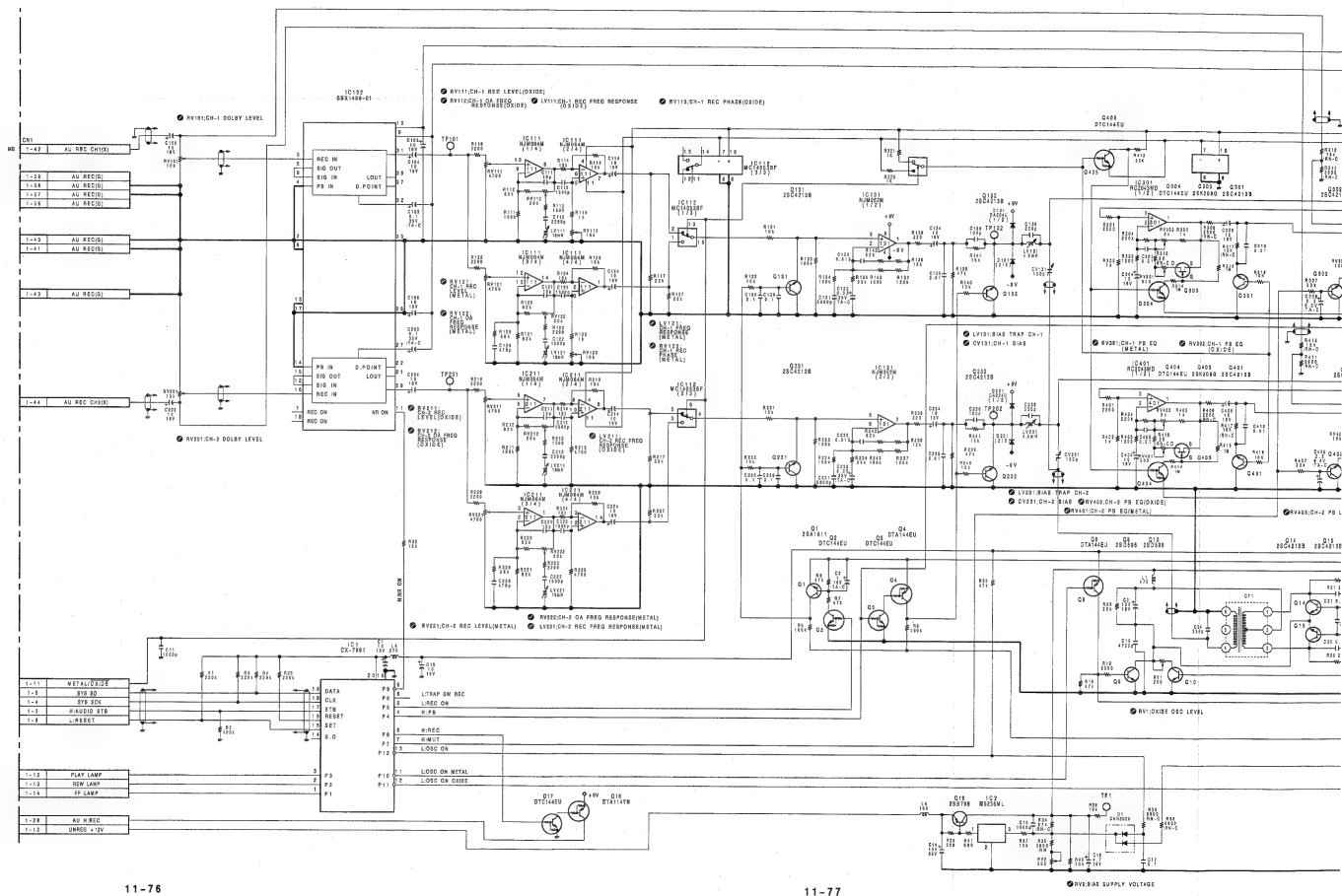
H

I

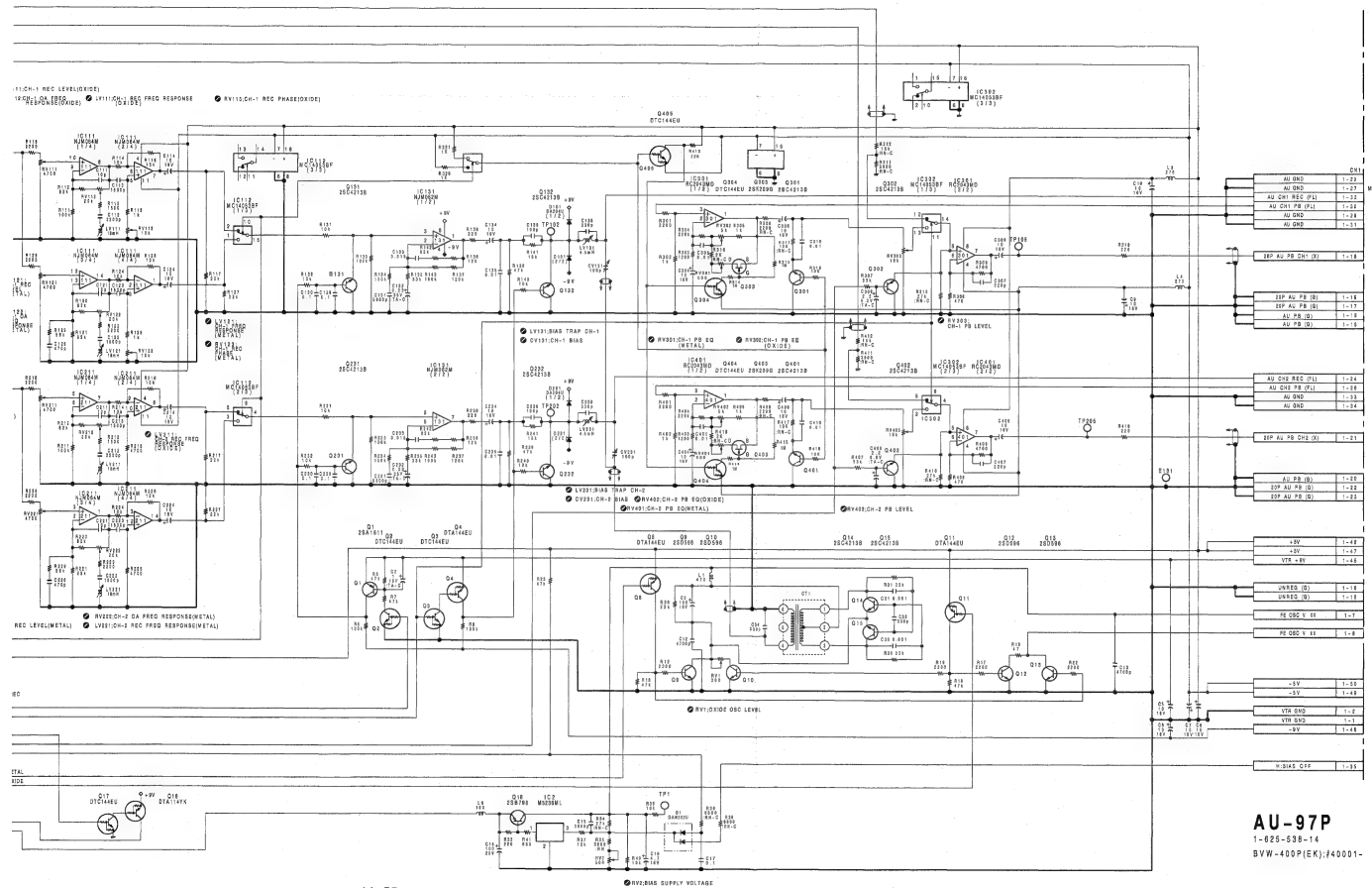


1-625-543-14
 BVW-400 (J) : 30001-
 BVW-400 (UC) : 10001-
 BVW-400P (EK) : 40001-

U-97P; AUDIO REC/PB, ERASE OSC

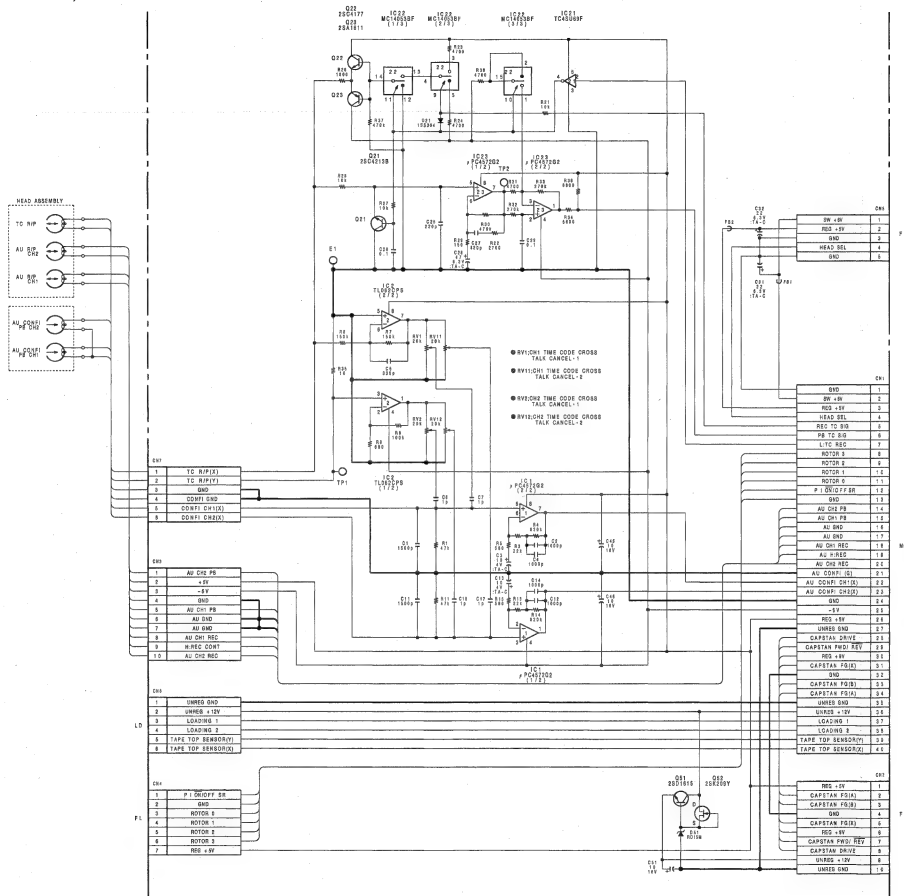


AU-97P AU-97P



AU-97P
1-625-538-14
BVW-400P(EK);#40001-

TB-5; TERMINAL BOARD, AUDIO CONFI



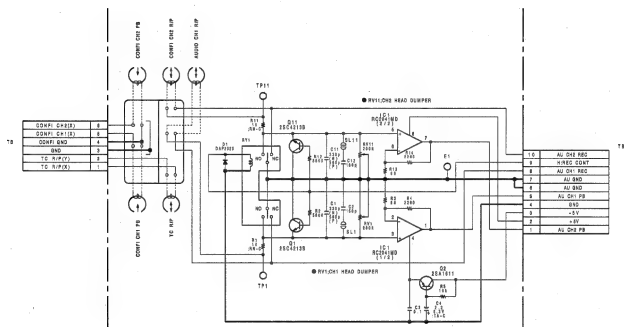
TB-5 BOARD

1-626-552-14

BVW-400 (J); 130001-

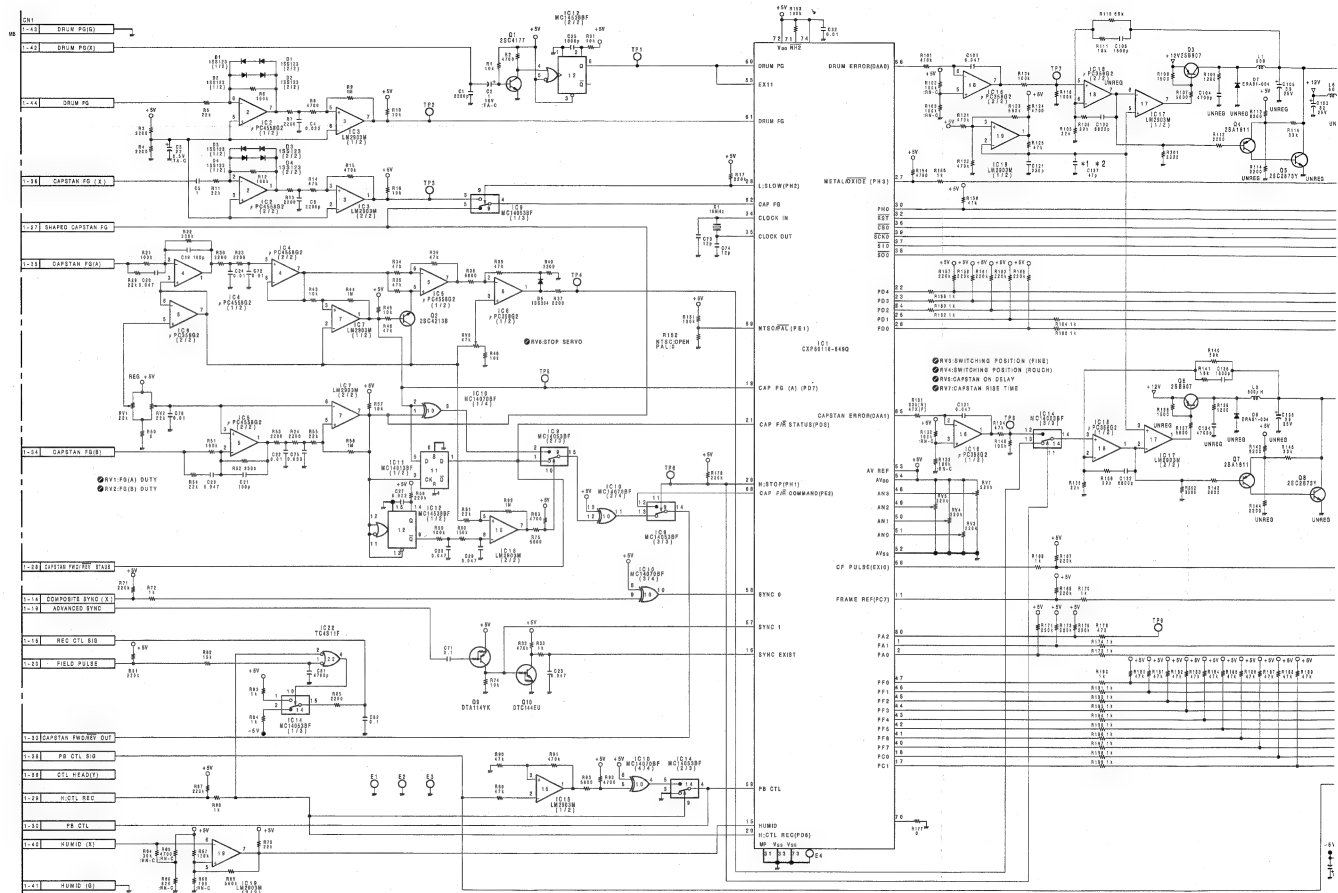
BVW-400 (U); 130001-

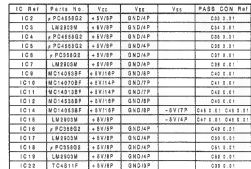
BVW-400P (E); 140001-



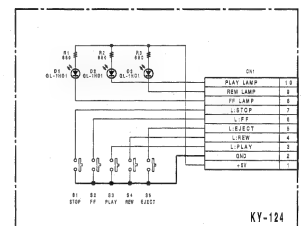
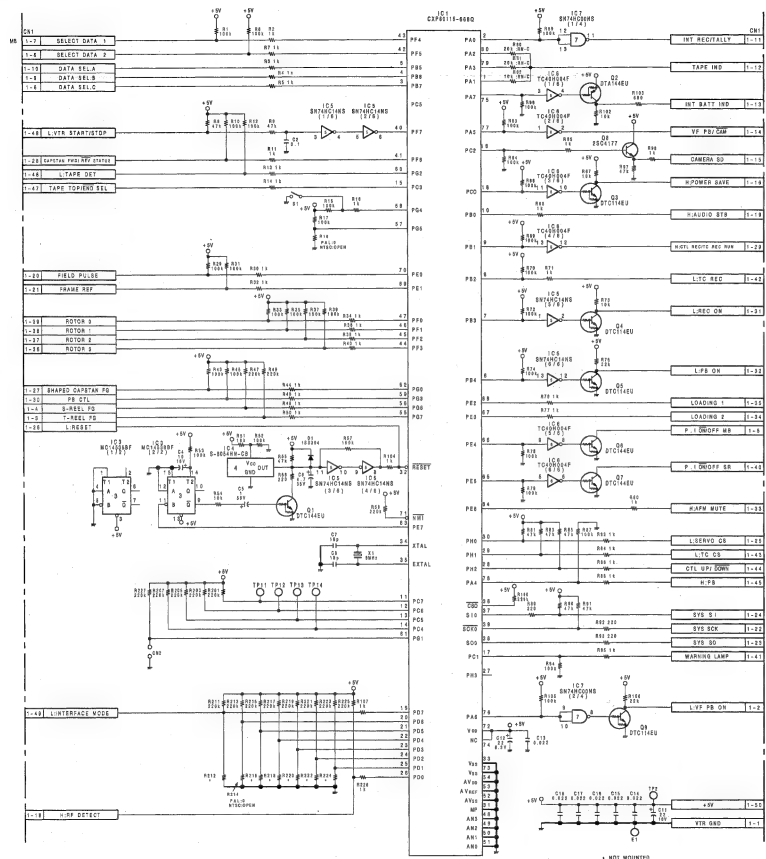
1-625-893-12
 BVW-400 (J) :#30001-
 BVW-400 (UC) :#10001-
 BVW-400P (EK) :#40001-

SV-97AP;DRUM/CAPSTAN SERVO





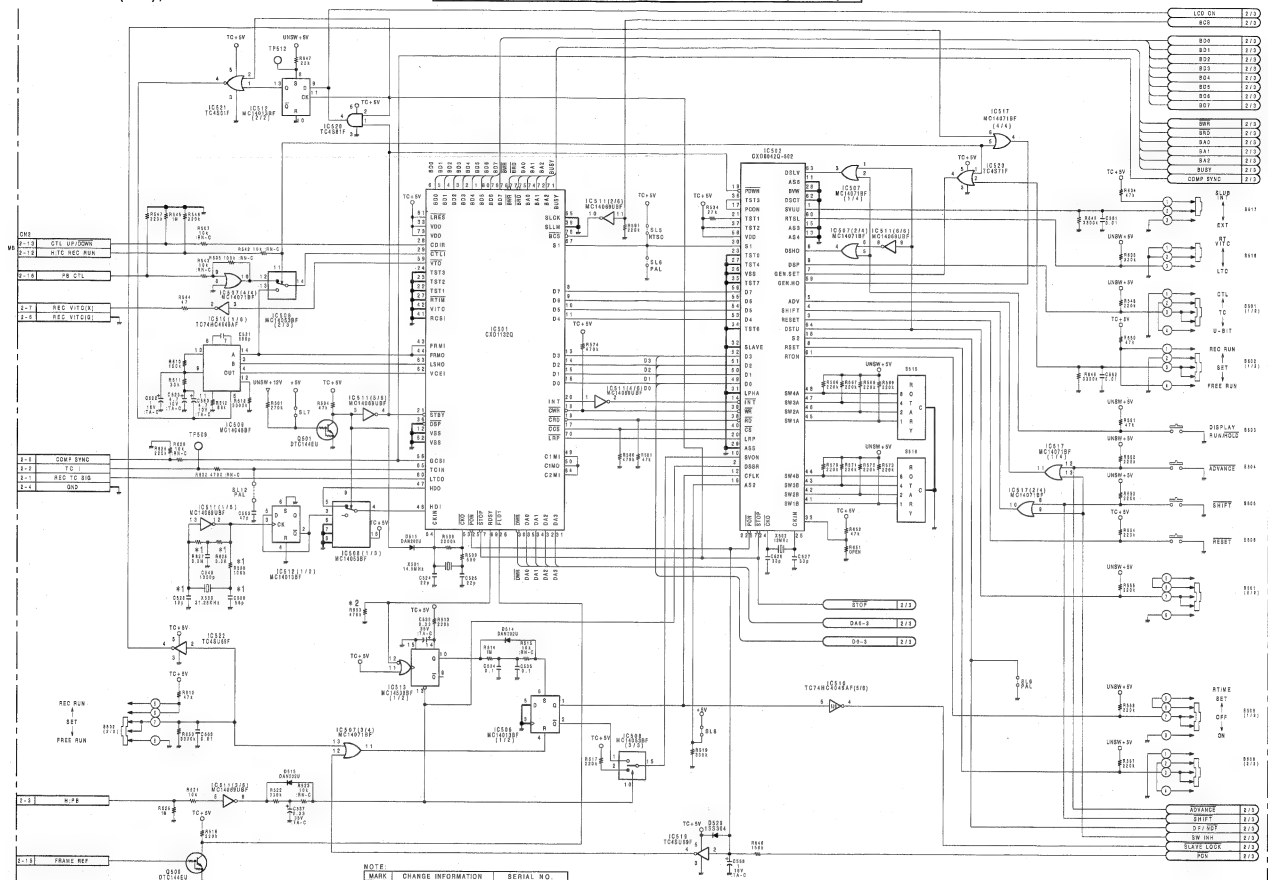
SY-117CP;SYSTEM CONTROL
KY-124;KEY BOARD



KY-124 BOARD
1-825-548-11
BVW-400 (J) ;#30001-
BVW-400 (UC) ;#10001-
BVW-400P (EK) ;#40001-

SY-117C/SY-117CP BOARD

1-625-539-21
 BVW-400 (J) ; 130001-
 BVW-400 (UC) ; 110001-
 BVW-400P(EK) ; 140001-



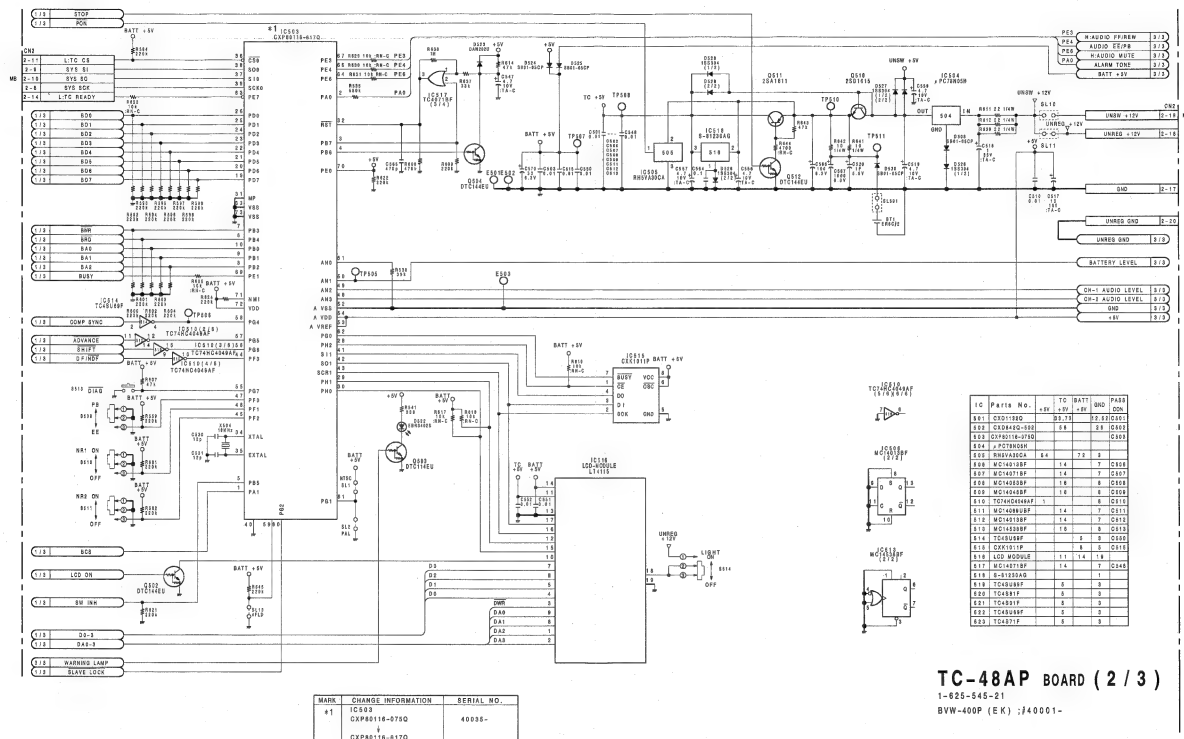
MARK	CHANGE INFORMATION	SERIAL NO.
#1	RESET 1M → 3.3M RESET 2.2M → 3.3M RESET 55K → 100K C008 33K → 15K C009 100K → 55K	48054-
#2	470K ADDED	48050-

TC-48AP BOARD (1/3)

1-825-645-21

BVW-400P [E.K.]#40001-

TC-48AP(2/3);TIME CODE SW,INDICATOR

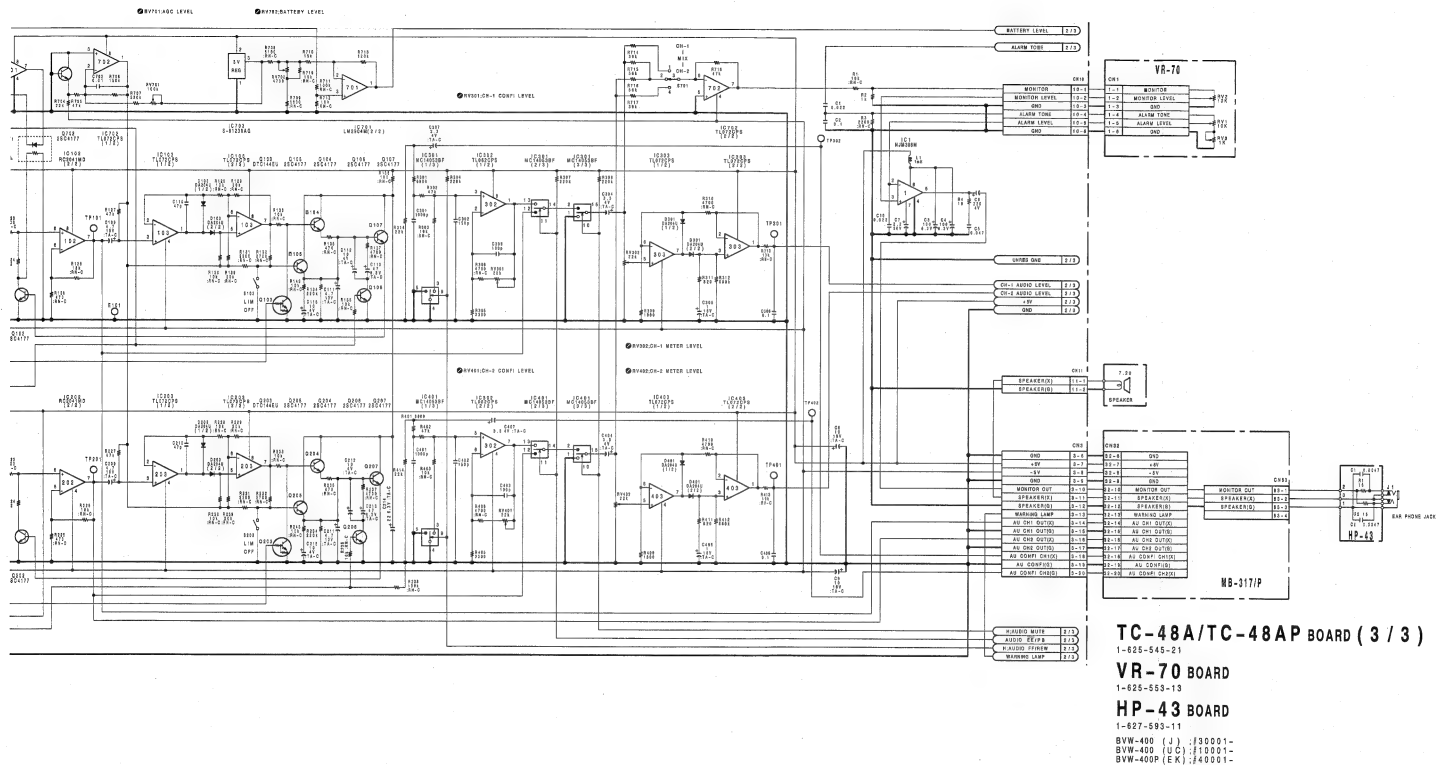


TC-48AP BOARD (2 / 3)

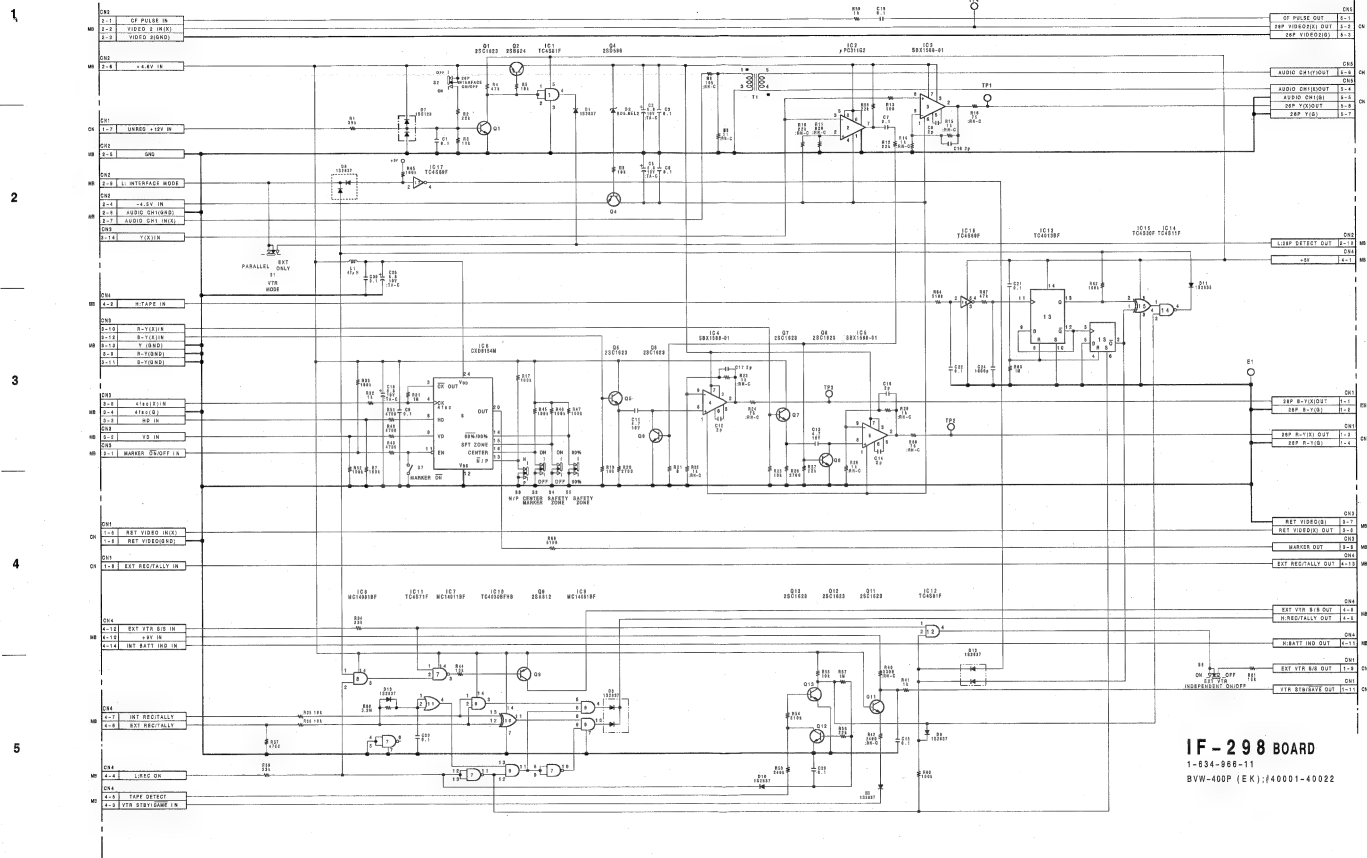
1-825-545-21
BVW-400P (E K) ; 40001-

11-107





IF-298; INTERFACE S/N;40001 through 40022



IF-298 BOARD
 1-634-968-11
 BVW-400P (E.K.):40001-40022

11-111(a)

11-112(b)

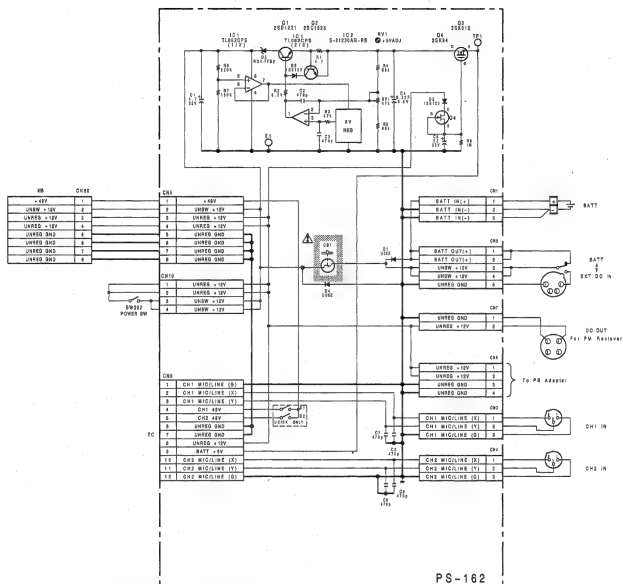
A B C D E F G H



11-112(b)

H

PS-162; POWER DISTRIBUTOR



注意：△印及び□印で示された部品は実装性を要するものと
目録の部品です。誤って交換する場合は指定の部品を使って
下さい。

NOTE:

The shaded and Δ -marked components are
critical to safety.
Replace only with same components as specified.

PS-162 BOARD

1-625-547-13,14

BVW-400 (J):J30001-
BVW-400 (U):J10001-
BVW-400P (E):J40001-

FE-4;FULL ERASE
LD-21;LOADING
SR-40;MECHANICAL POSITION SENSOR

FE-4,LD-21,SR-40 FE-4,LD-21,SR-40

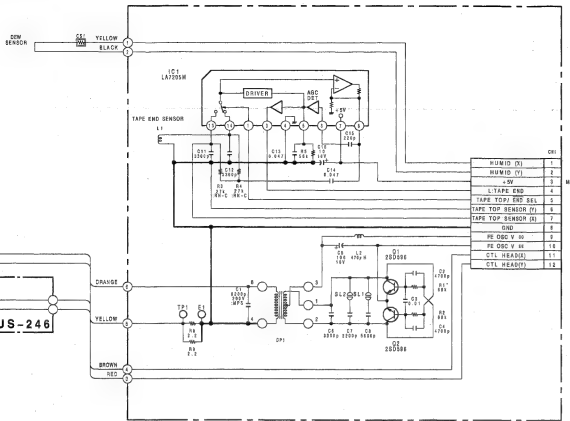
1

2

3

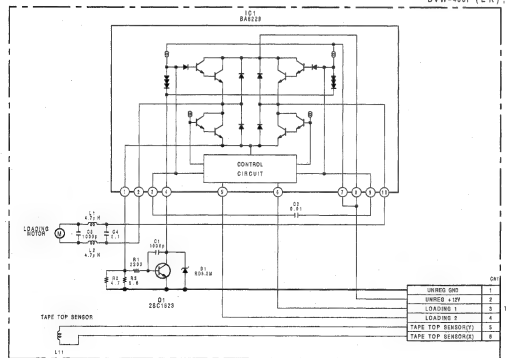
4

5



FE-4 BOARD

1-026-551-13
BVW-400 (J) :/30001-
BVW-400 (U) :/10001-
BVW-400P (E) :/40001-



LD-21 BOARD

1-026-548-14
BVW-400 (J) :/30001-
BVW-400 (U) :/10001-
BVW-400P (E) :/40001-

11-117

A

B

C

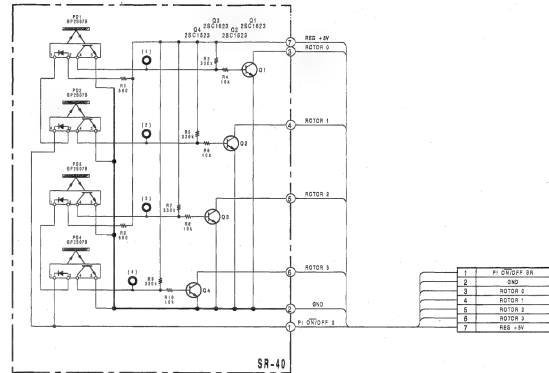
D

E

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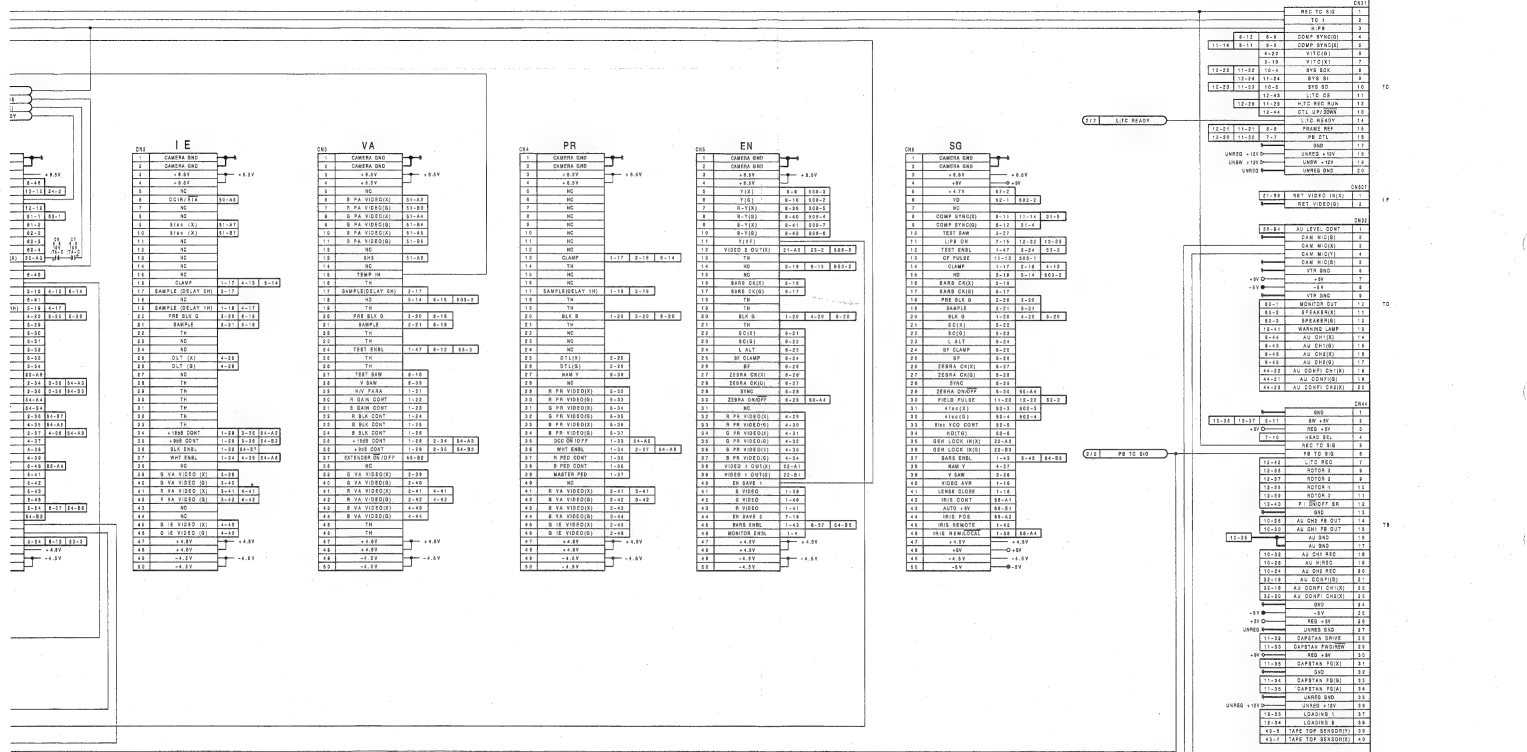
H



SR-40 BOARD

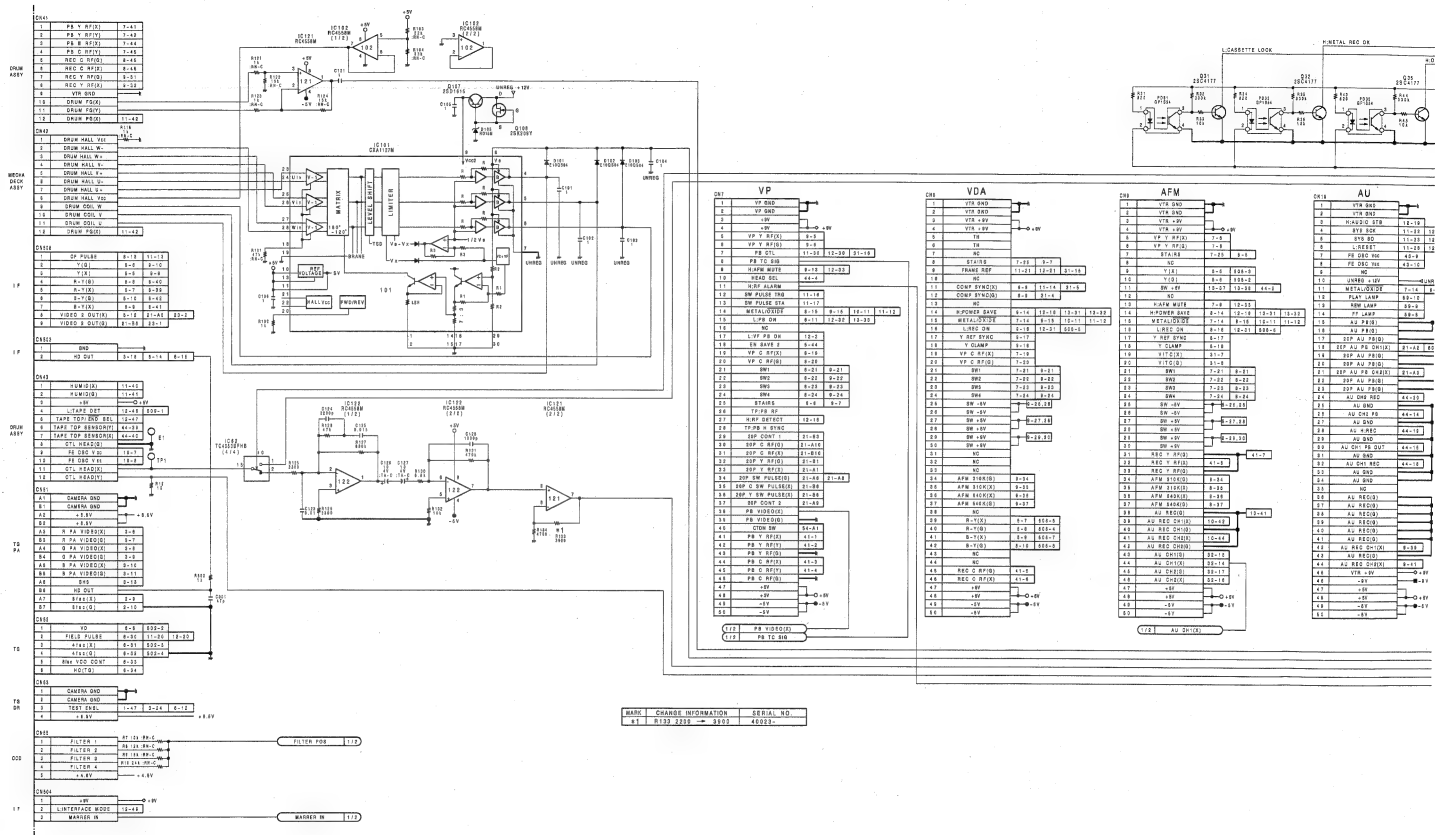
1-026-550-13
BVW-400 (J) :/30001-
BVW-400 (U) :/10001-
BVW-400P (E) :/40001-

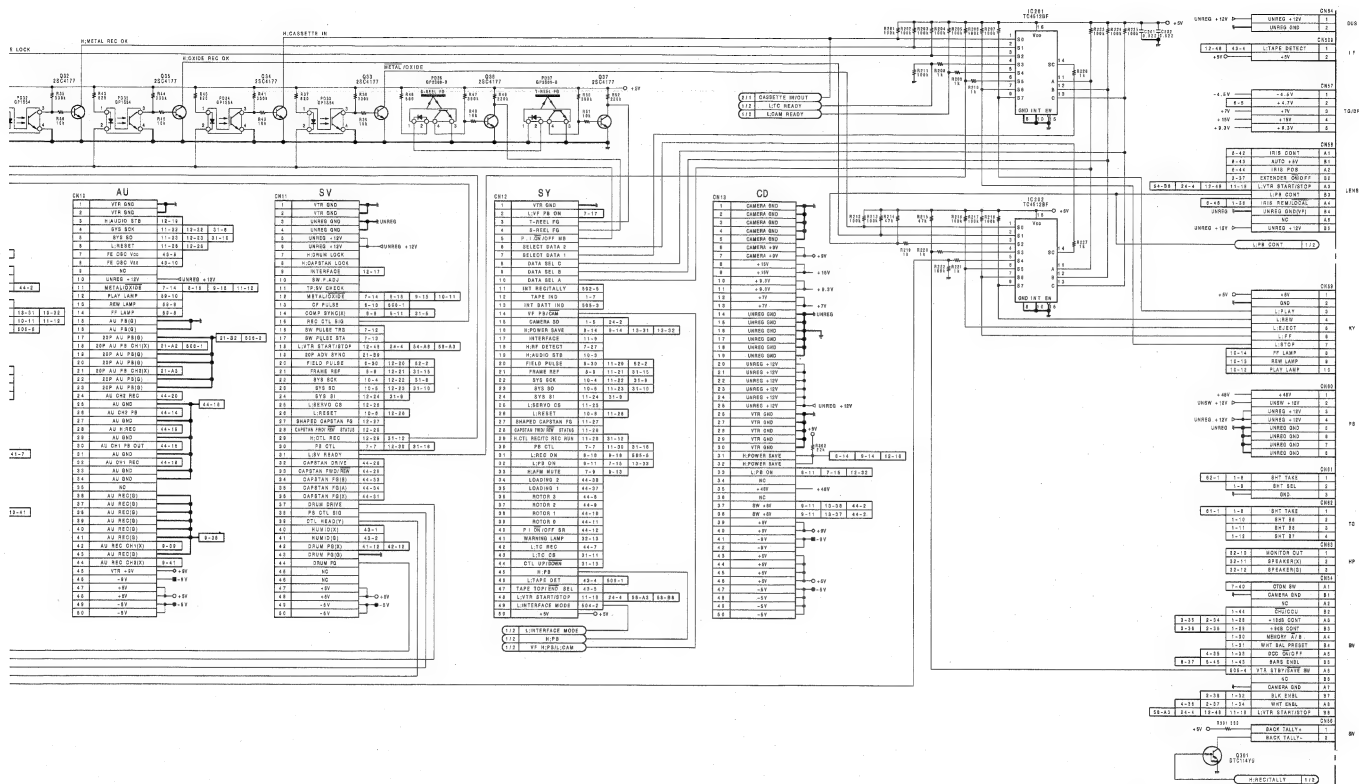
11-118



MB-317P(1/2) BOARD
1-804-076-11
BWV-400P (E.K.):J40001-

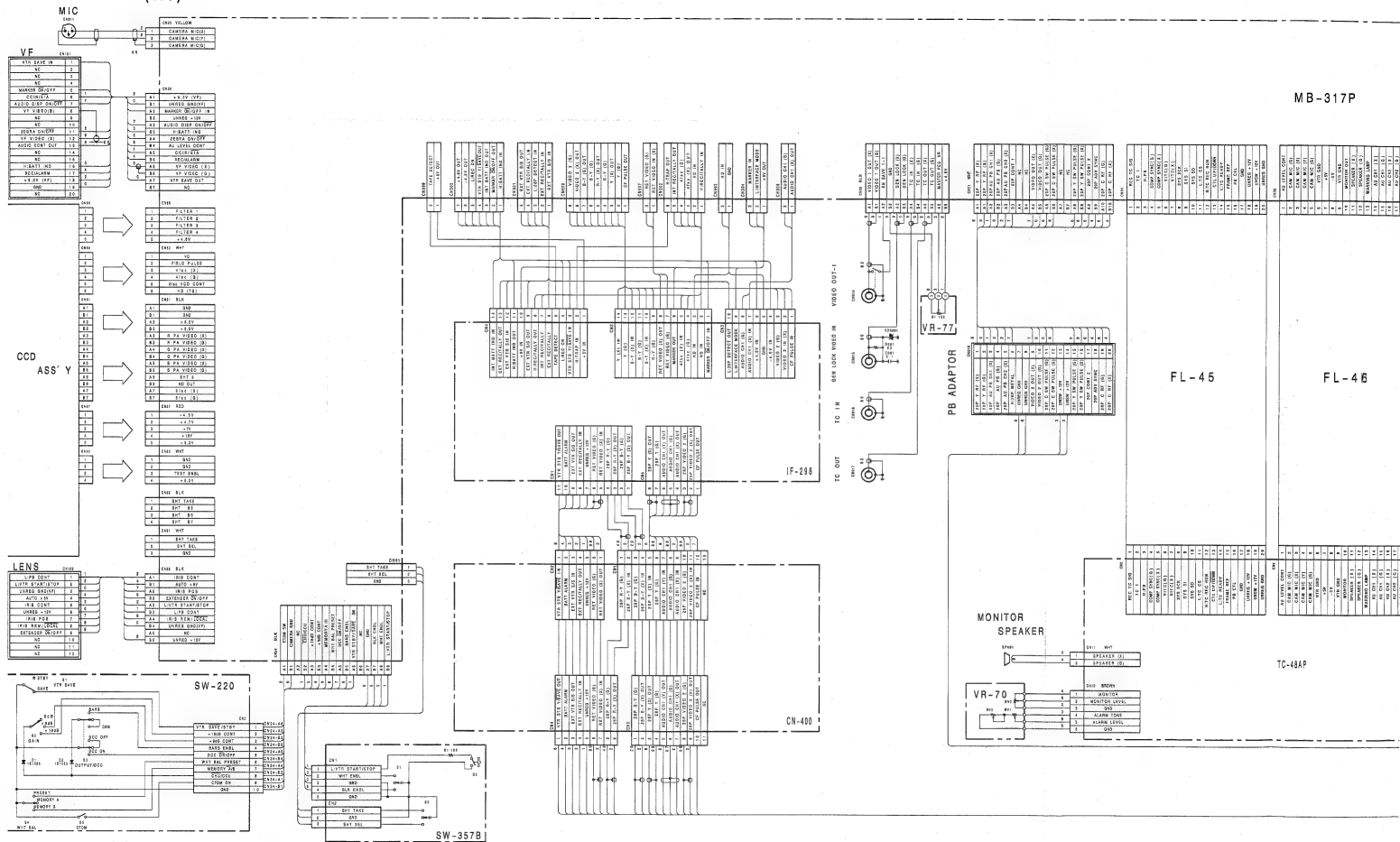
MB-317P(2/2);MOTHER BOARD





MB-317P(2/2) BOARD
1-634-076-11
BVW-400P (E.K.) J40001-

FRAME(1/3)



MB-317P

FL-45

FL-46

MONITOR SPEAKER

TC-48AP

11-139

11-140

A

C

D

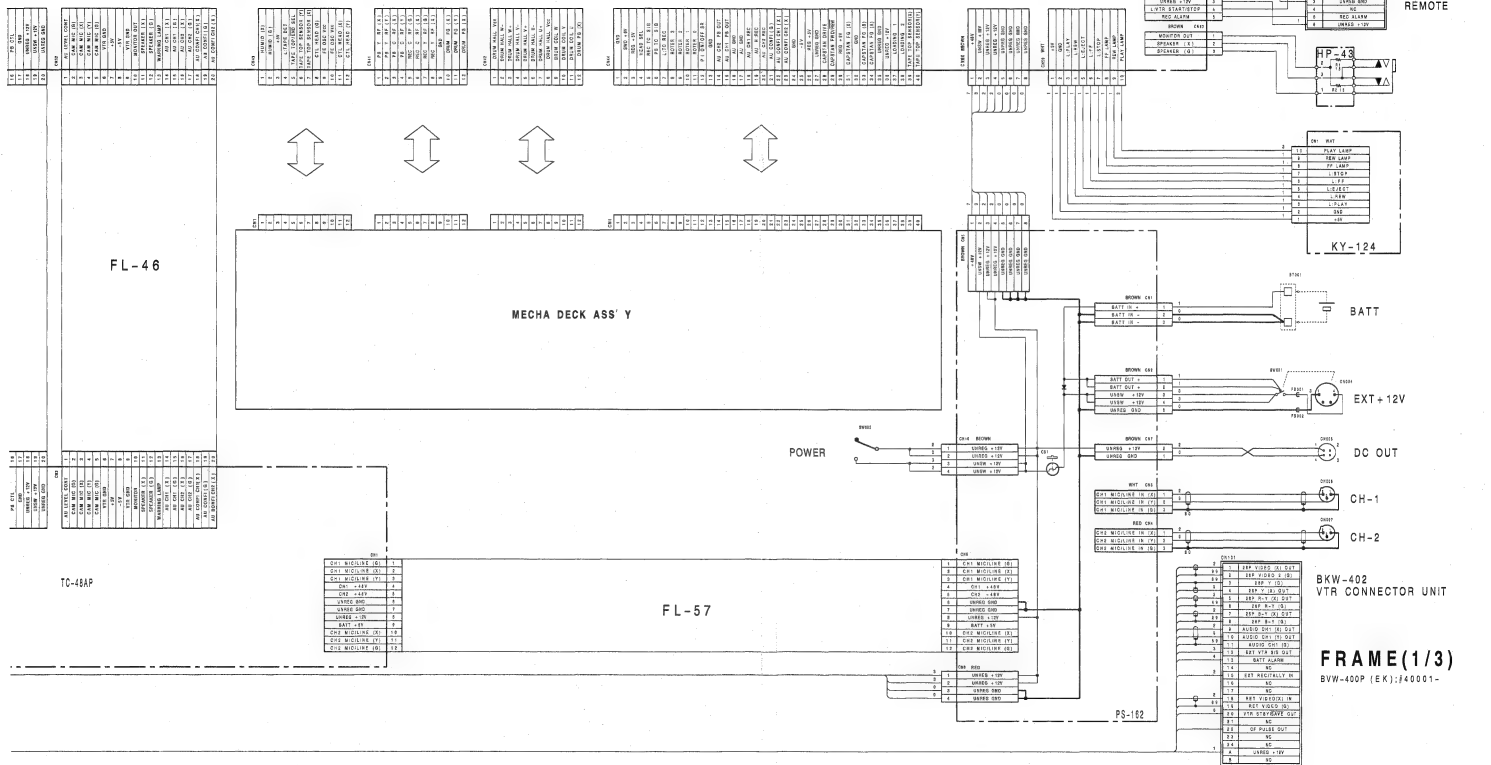
E

F

G

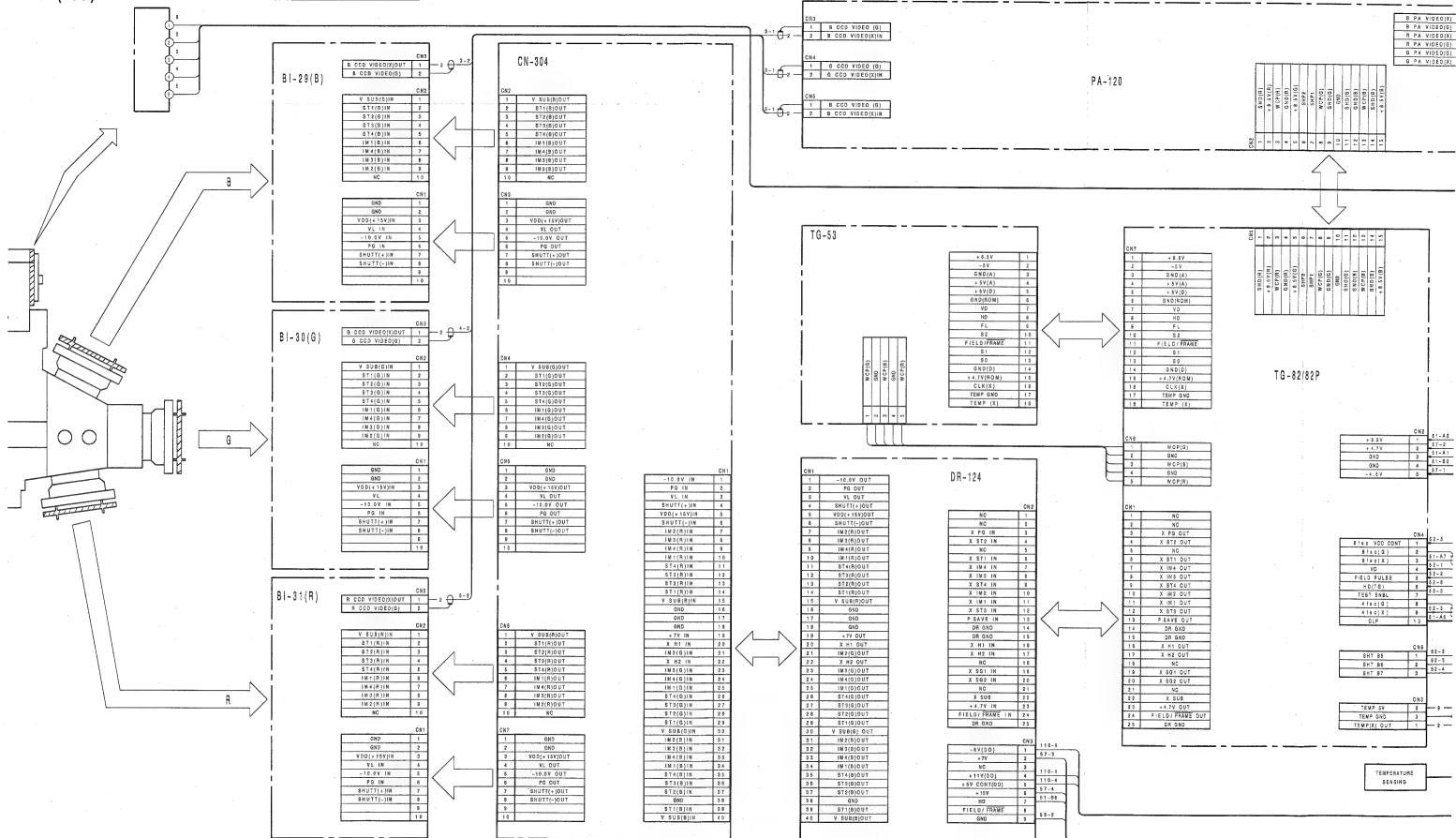
H

MB-317P



RAME(2/3)

S/N:40001 through 40022



11-146(a)

11-147(a)

A

B

C

D

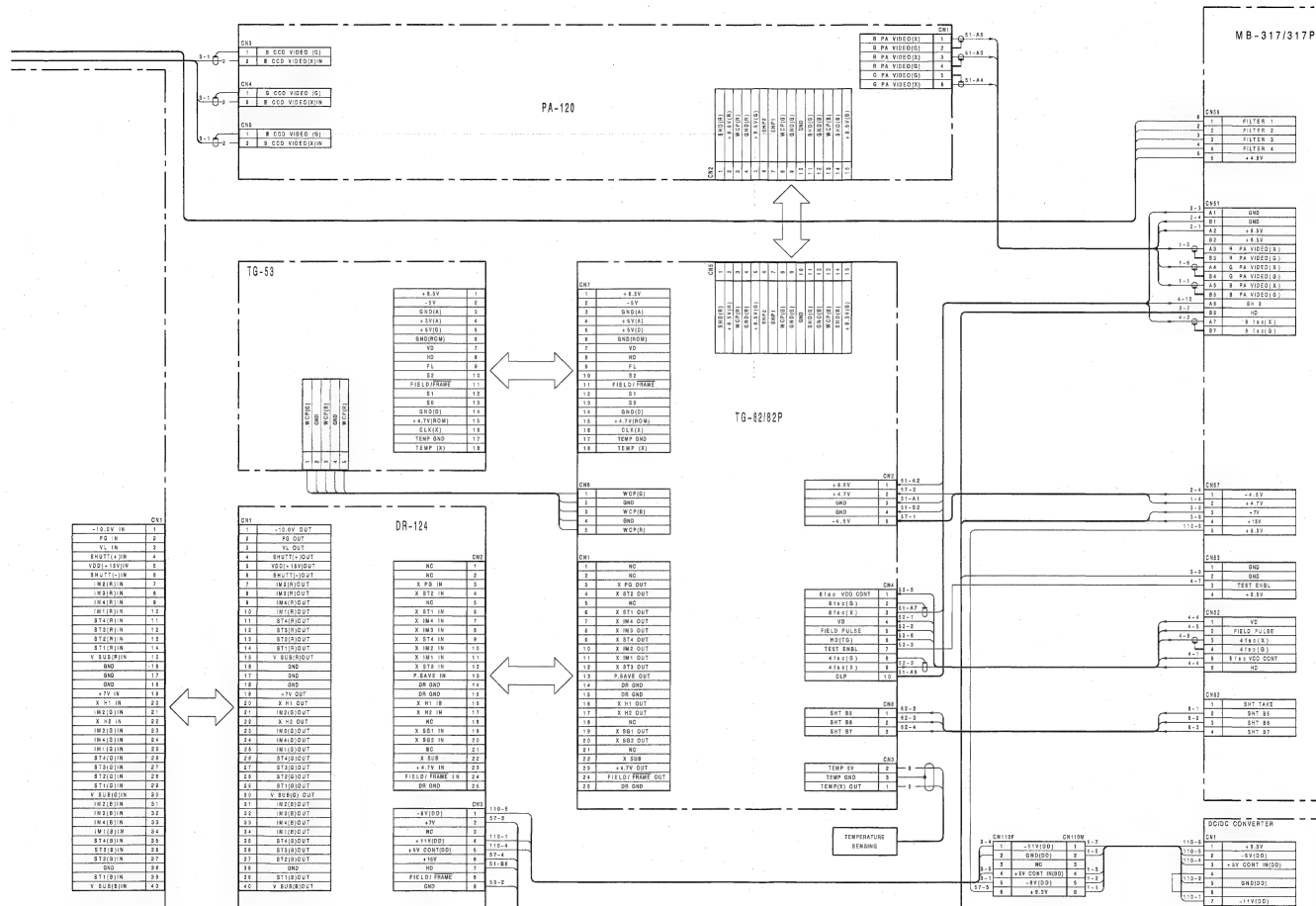
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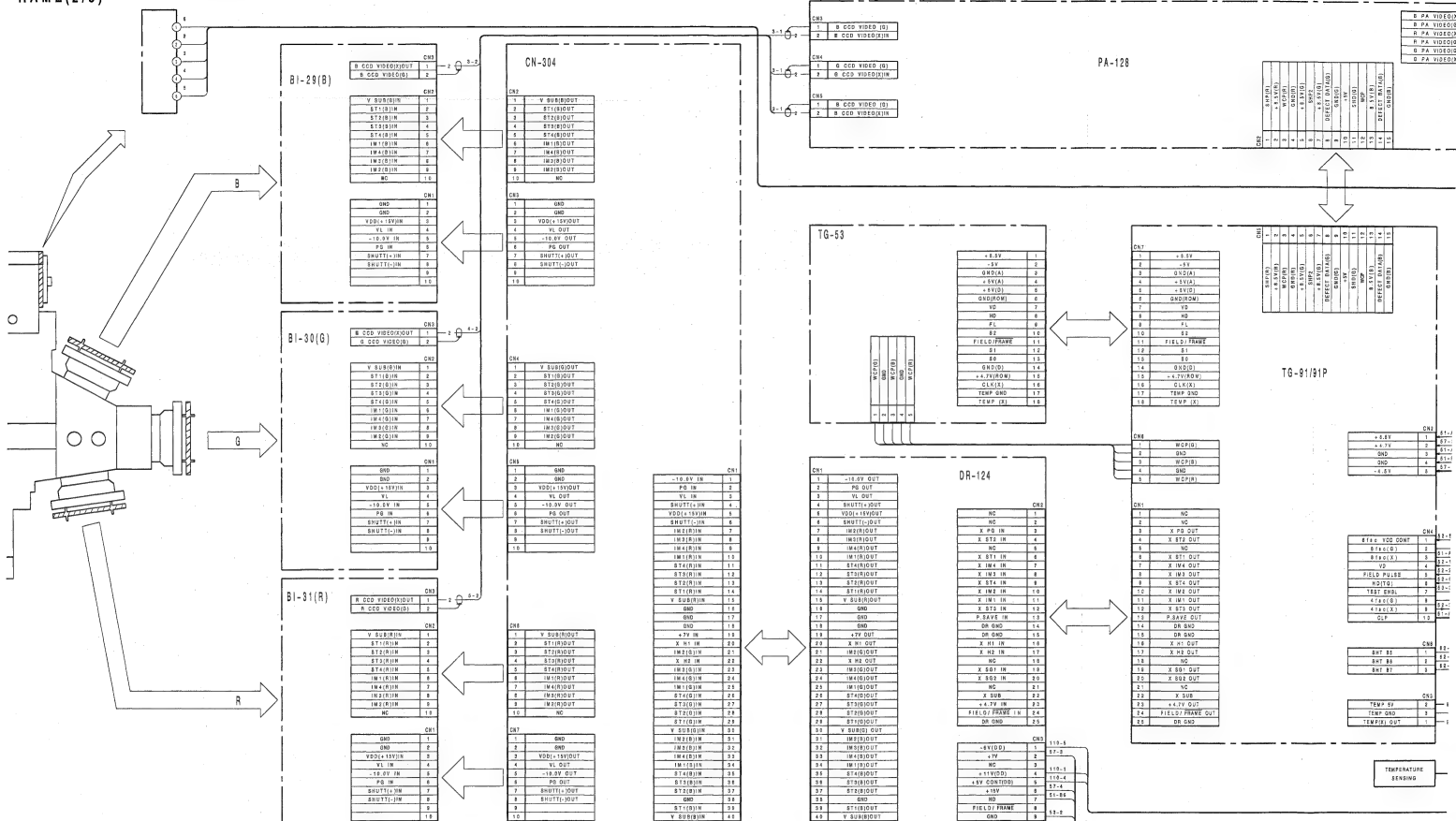
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H

I







A

B

C

D

VIEWFINDER

LP-40;REC LED
LP-42;FRONT TALLY LED
LP-58;BATT/TALLY,VTR SAVE LED
VR-67;VOLUME CONTROL
SW-260A;SWITCH BOARD
VF-32;VIEWFINDER

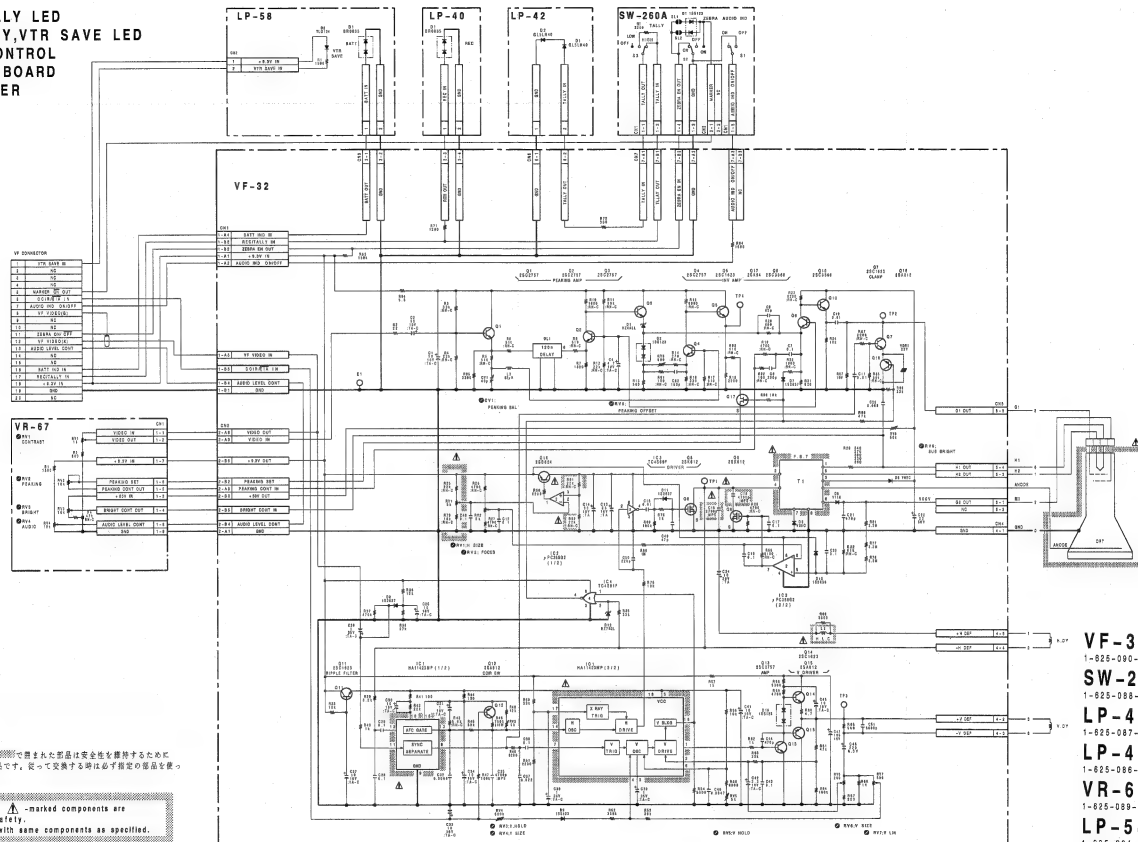


図 1: A 印及び A 印の付いた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使用して下さい。

NOTE:

The shaded and A-marked components are critical to safety.
Replace only with same components as specified.

CD-89:DC-DC CONVERTER

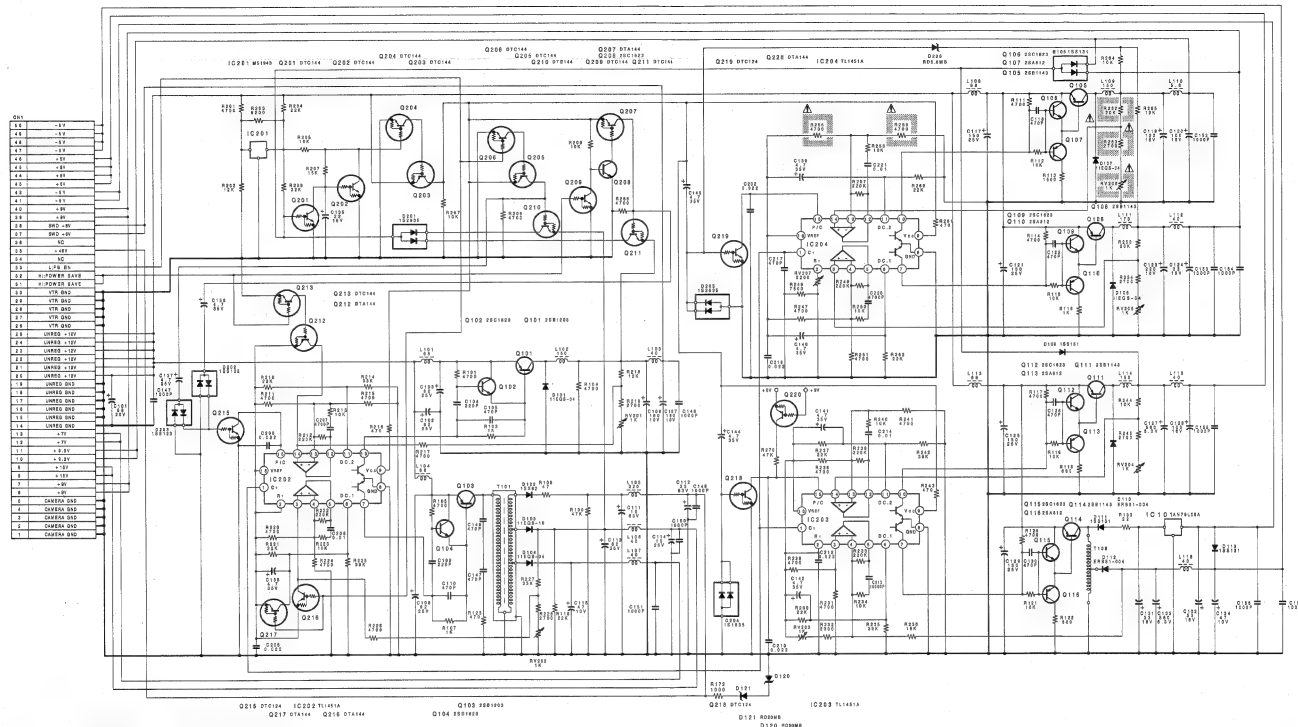
1

2

3

4

5



注意 1: 図及び図で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:

The shaded and Δ -marked components are critical to safety. Replace only with same components as specified.

11-157

A

B

C

D

E

F

G

H

CD-89 BOARD

1-454-995-41

BVV-400 (J) : F30001-
 BVV-400 (U) : F10001-
 BVV-400P (EK) : F40001-

11-158

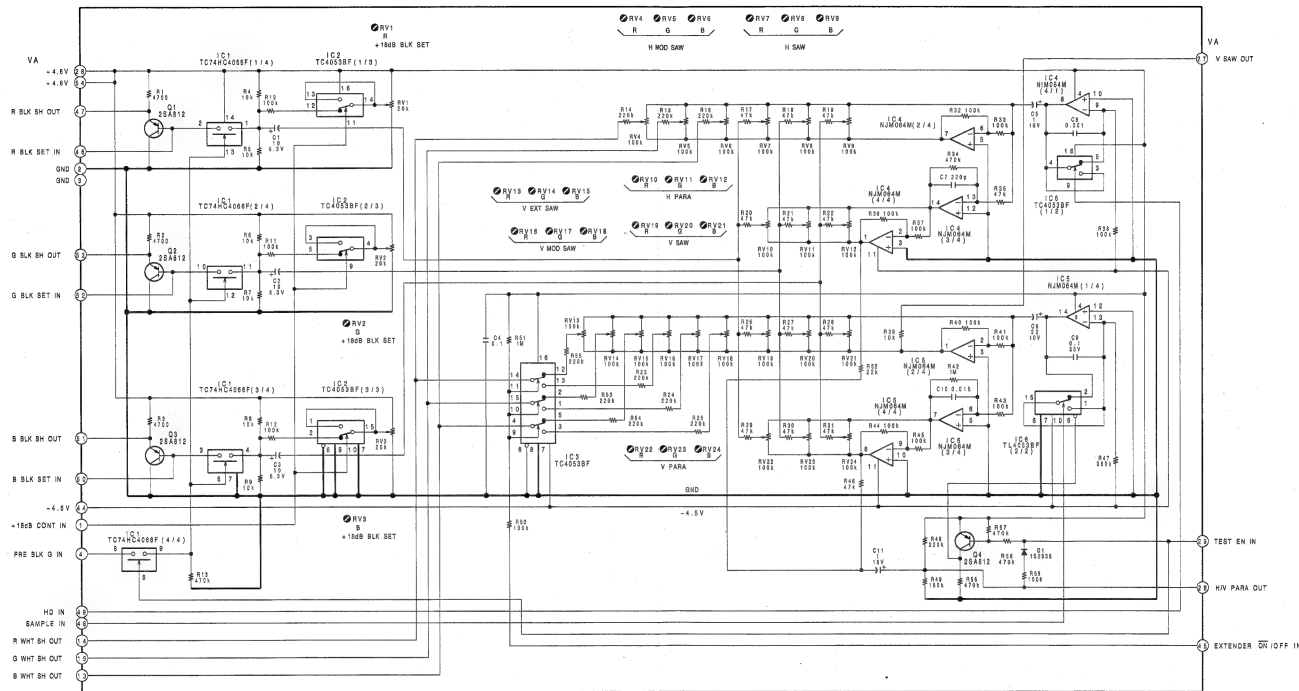
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2

3

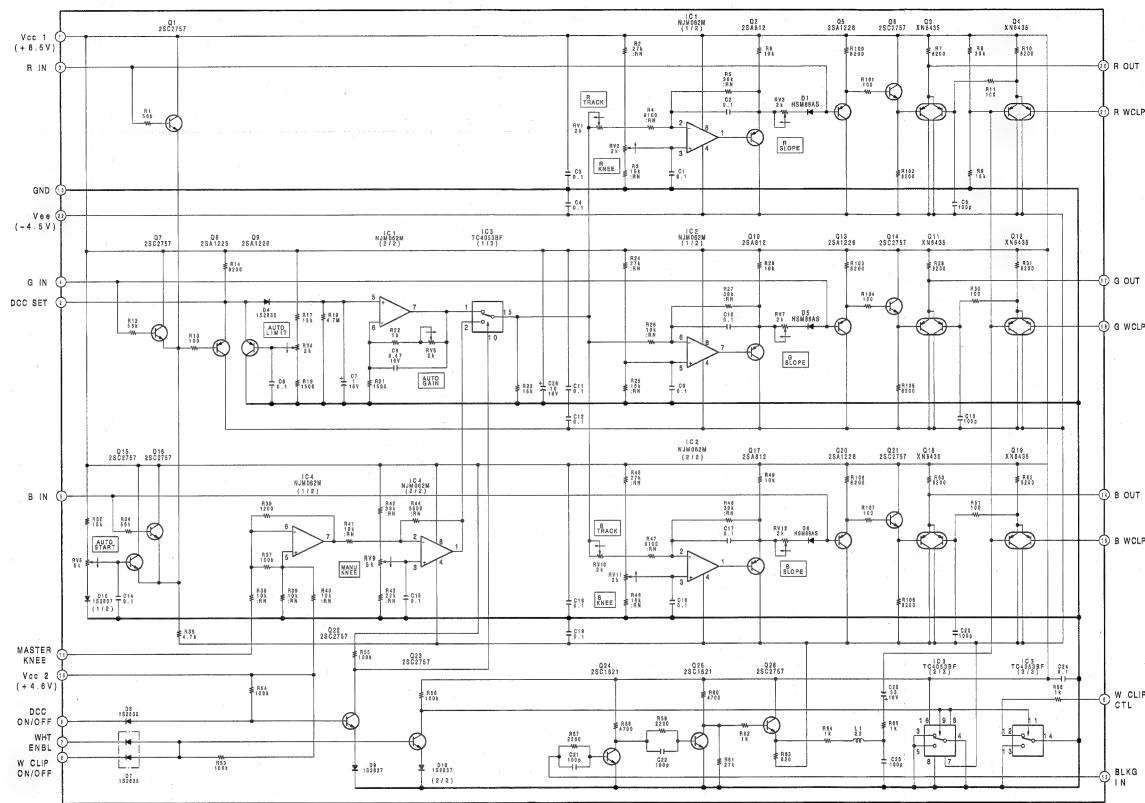
4

5



BH-1263 BOARD

BVM-400 (J) : 690001-
BVM-400 (UC) : 610001-
BVM-400P (EK) : 640001-



BH-1265

BVW-400 (J) : J30001-
BVW-400 (U) : U10001-
BVW-400 (E) : E40001-

SECTION 13

SPARE PARTS AND FIXTURE

PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with Δ on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replace parts that are supplied from Sony Parts Center can sometimes have different shape and external appearance than what are actually used in equipment. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts."
 - This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present."
 - Regarding engineering parts and diagrams changes in our engineering department, refer to Sony service bulletins and service manual supplements.
3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.

5. Abbreviation

REF. No.	DESCRIPTION	REF. No.	DESCRIPTION	REF. No.	DESCRIPTION
BT	BATTERY	FB	FERRITE BEAD	RV	VARIABLE RESISTOR
BZ	BUZZER	FL	FILTER	RY	RELAY
C	CAPACITOR	IC	IC	S	SWITCH
CN	CONNECTOR	L	INDUCTOR	T	TRANSFORMER
CP	COMBINATION PARTS	LV	VARIABLE INDUCTOR	TH	THERMISTOR
CV	VARIABLE CAPACITOR	Q	TRANSISTOR	TM	TIMER
D	DIODE	R	RESISTOR	VDR	VARISTOR
DL	DELAY LINE	RB	RESISTOR BLOCK	X	OSCILLATOR

All capacitors are in micro farads unless otherwise specified.

All inductors are in micro henries unless otherwise specified.

All resistors are in ohms.

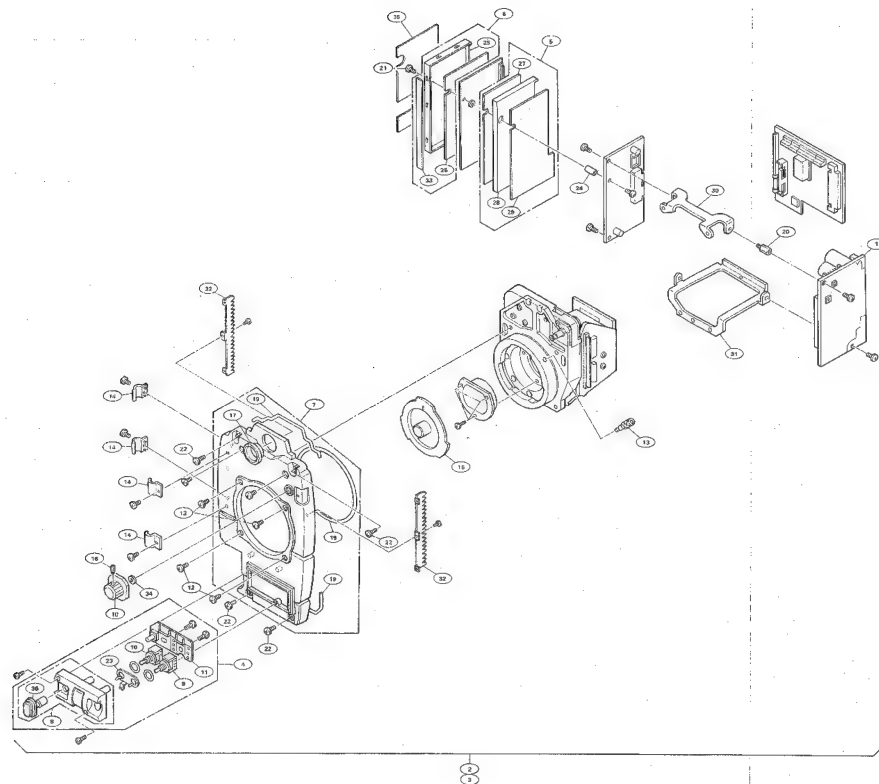
FRONT PANEL

EXPLODED VIEW

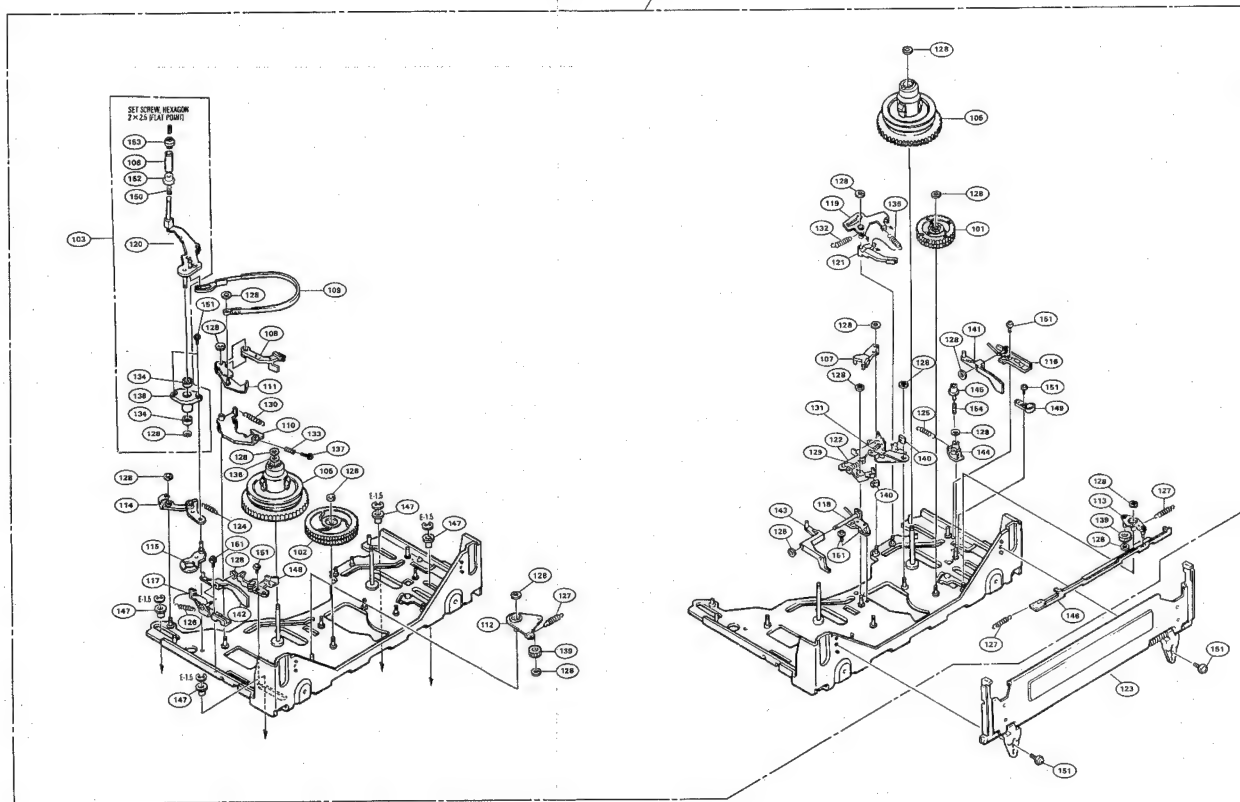
FRONT PANEL

No.	Part No.	SP Description
1	A-7515-144-A	o MOUNTED CIRCUIT BOARD, DR-124
2	A-7575-151-A	o CCD UNIT (N) (J,UC)
3	A-7575-152-A	o CCD UNIT (P) (EK)
4	A-7615-261-A	o SW (B) ASSY, FRONT
5	X-3710-064-3	o CASE ASSY, SHIELD
6	X-3710-067-4	o COVER ASSY, SHIELD
7	X-3722-375-7	o FRAME SUB ASSY, FRONT
8	X-3722-439-3	o PLATE (B) ASSY, ORNAMENTAL
9	1-554-395-00	o SWITCH, TOGGLE
10	1-554-396-00	o SWITCH, TOGGLE
11	1-629-570-11	o PRINTED CIRCUIT BOARD, SW-357
12	2-623-773-11	o BOLT (M3X8), STAINLESS
13	3-678-629-00	o LEVER, MOUNT
14	3-678-684-00	o HOLDER, CABLE
15	3-699-048-01	o CAP, MOUNT
16	3-701-505-00	o SET SCREW, DOUBLE POINT 3X3
17	3-710-024-01	o PACKING, VF
18	3-710-054-01	o KNOB, FILTER
19	3-711-715-01	o RUBBER, SHIELD
20	3-734-535-02	o SUPPORT (STAY T)
21	3-711-767-01	o SCREW, STOPPER
22	3-725-295-01	o SCREW, (+) (B3)
23	3-729-068-01	o PLATE (FR), SHIELD
24	3-734-514-01	o SUPPORT (Y)
25	3-734-515-04	o COVER, SHIELD
26	3-734-516-05	o SHEET, INSULATING, SHIELD CASE
27	3-734-518-01	o SHEET, INSULATING, SHIELD CASE
28	3-734-519-03	o CASE, SHIELD
29	3-734-520-01	o SHEET, INSULATING, SHIELD CASE
30	3-742-010-01	o STAY (T3), SHIELD PLATE
31	3-742-013-01	o STAY (B5), SHIELD PLATE
32	3-742-064-01	o FINGER, SHIELD
33	3-742-206-01	o SHEET (P), SHIELD COVER
34	3-884-053-00	o RING (O)
35	3-734-569-03	o SHEET, SHIELD COVER
36	3-729-069-01	o BUTTON, VTR START

FRONT PANEL



REEL CHASSIS



13-5

13-6

BVW-400 (J/JC)
BVW-400P (EK)

REEL CHASSIS

No.	Part No.	SP Description
101	A-6740-091-0	s IDLER ASSY. T
102	A-6740-092-0	s IDLER ASSY. S
103	A-6742-067-6	o TENSION REGULATOR ASSY
104	A-6771-030-0	o CHASSIS ASSY. REEL
105	X-3722-321-3	s TABLE ASSY. REEL
106	X-3722-322-1	s ROLLER ASSY. POM
107	X-3722-323-1	s BRAKE ASSY. T SOFT
108	X-3722-324-3	s BRAKE ASSY. S SOFT
109	X-3722-325-2	s BAND ASSY. TENSION REGULATOR
110	X-3722-326-2	o LEVER (A) ASSY. SUPPORT LEVER
111	X-3722-327-3	o SUPPORT (B) ASSY. BAND
112	X-3722-328-1	o ARM ASSY. S JOINT GEAR
113	X-3722-329-1	o ARM ASSY. T JOINT GEAR
114	X-3722-330-1	o HOOK ASSY. SPRING
115	X-3722-331-1	o DRIVING ASSY. TENSION REGULATOR
116	X-3722-332-1	o HOLDER (A) ASSY
117	X-3722-333-3	o HOLDER (B) ASSY
118	X-3722-334-1	o HOLDER (C) ASSY
119	X-3722-335-2	o LEVER ASSY. PINCH ARM LOCK
120	X-3722-351-4	o ARM ASSY. TENSION REGULATOR
121	X-3722-410-1	s BRAKE ASSY. T SUB SOFT
122	X-3722-421-1	o SLIDER ASSY. BRAKE
123	X-3722-423-1	o PLATE (B) ASSY. BLIND
124	3-489-310-XX	s SPRING, TENSION
125	3-514-127-01	s SPRING, TENSION
126	3-527-025-00	s SPRING, TENSION
127	3-527-189-11	s SPRING, TENSION
128	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2
129	3-564-935-00	s SPRING, TENSION
130	3-567-028-11	s SPRING, TENSION
131	3-570-590-00	s SPRING, TENSION
132	3-570-951-00	s SPRING, TENSION
133	3-573-150-00	s SPRING, COMPRESSION
134	3-650-312-00	s BEARING, BALL (NO FLANGE)
135	3-667-309-00	s SPRING, TENSION
136	3-701-437-21	s WASHER
137	3-703-502-71	s SCREW
138	3-722-325-02	o BOSS, ARM BEARING
139	3-722-344-01	o GEAR, JOINT
140	3-722-354-01	o RUBBER, BRAKE
141	3-722-357-01	s LEVER (A), REC. MISTAKE
142	3-722-360-01	s LEVER (B), REC. MISTAKE
143	3-722-363-01	s LEVER, METAL DETECTION
144	3-722-367-01	o HOLDER, DETECTION PIN
145	3-722-368-01	o PIN, CASSETTE DETECTION
146	3-722-458-03	o LINK (A), JOINT GEAR
147	3-723-007-01	s ROLLER, LS
148	3-723-011-03	s HOLDER (RIGHT), SLIDE PIN
149	3-723-012-01	s HOLDER (LEFT), SLIDE PIN
150	3-729-011-01	s SPRING, COMPRESSION
151	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)
152	3-729-026-04	o FLANGE (B), LOWER
153	3-729-079-02	s FLANGE, UPPER, TENSION REGULATOR
154	4-879-762-00	s SPRING, COMPRESSION

SLANT

SLANT

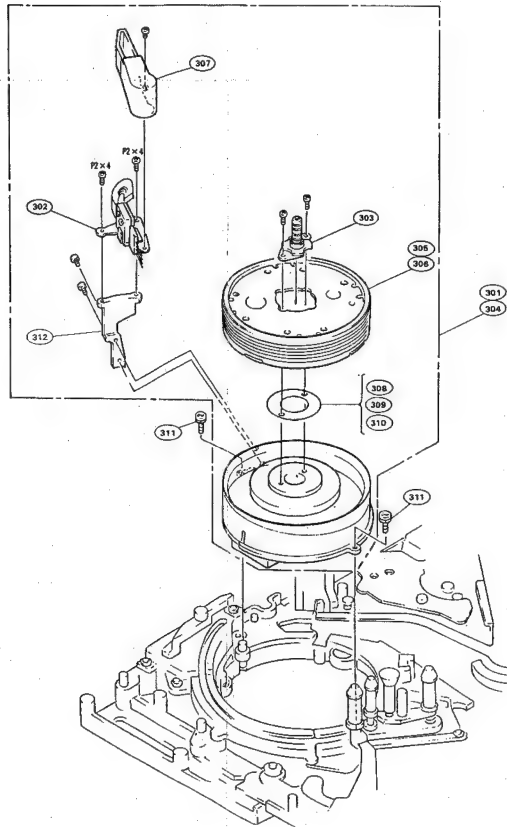
No.	Part No.	SP Description
201	X-3722-313-4	BASE ASSY, S
202	X-3722-314-3	BASE ASSY, S SUB
203	X-3722-315-2	IR-2 ASSY
204	X-3722-319-1	ROLLER ASSY
205	X-3722-355-3	BASE ASSY, T
206	X-3722-382-1	PULL ASSY, S
207	X-3722-383-2	LINK ASSY, T SUB FIXED
208	X-3722-384-3	LINK ASSY, T SUB ROTARY
209	X-3722-385-5	BASE ASSY, T SUB
210	X-3722-386-2	PLATE ASSY, PULL, T
211	X-3722-388-5	RING (T) ASSY, LOATING
212	X-3722-389-3	RING (S) ASSY, LOATING
213	X-3722-390-2	TABLE ASSY, ROTARY, T SUB
214	X-3722-409-1	SHAFT ASSY, MAIN, T SUB ROTARY
215	3-321-813-01	WASHER, CUTTER POLYETHYLENE
216	3-557-565-00	WASHER, 1.4 DIA, SMALL
217	3-559-408-11	WASHER, POLYETHYLENE, DIA. 1.2
218	3-657-842-01	SPACER (3X4)
220	3-695-567-01	WASHER, W SLIDER
221	3-701-436-01	WASHER, 1.6
222	3-722-400-02	FLANGE (C), UPPER
223	3-722-401-02	FLANGE (A), LOWER
224	3-722-402-02	NUT, IR
225	3-724-770-01	SPRING
226	3-724-772-02	ARM, T, S FIXED
227	3-724-775-02	PLATE, OPEN, S
228	3-724-788-01	SPRING, COMPRESSION
229	3-724-789-02	SPRING
230	3-724-792-02	REINFORCEMENT, GEAR
231	3-724-793-02	FLANGE (A), ROLLER
232	3-724-794-01	FLANGE (R), ROLLER
233	3-724-799-01	FLANGE, RING
234	3-725-201-01	ROLLER, RING
235	3-725-202-02	ROLLER, SUB
236	3-725-203-01	GEAR, S DRIVING MIDWAY
237	3-725-204-01	GEAR, S DRIVING
238	3-725-205-01	PLATE, ADJUSTMENT, T SUB
239	3-725-214-02	RAIL (D), S
240	3-725-215-02	RAIL (I), S
241	3-725-217-04	RAIL (O), T
242	3-725-218-02	RAIL (I), T
243	3-729-011-01	SPRING, COMPRESSION
244	3-729-013-21	SCREW (M1.4X2.5), WASHERHEAD (+P)
245	3-729-020-01	PLATE, FIXED, T SUB
246	3-729-040-01	PLATE, INDICATION, T
247	3-729-041-01	SPRING
248	3-729-042-01	PLATE, INDICATION, S
249	3-729-043-01	SPRING
250	3-729-073-01	GUIDE, TENSION
251	4-879-782-00	SPRING, COMPRESSION
252	3-669-481-02	PIN (DIA. 1) PARALLEL

BVW-400 (J/UC)
BVW-400P (EK)



13-10

DRUM



DRUM

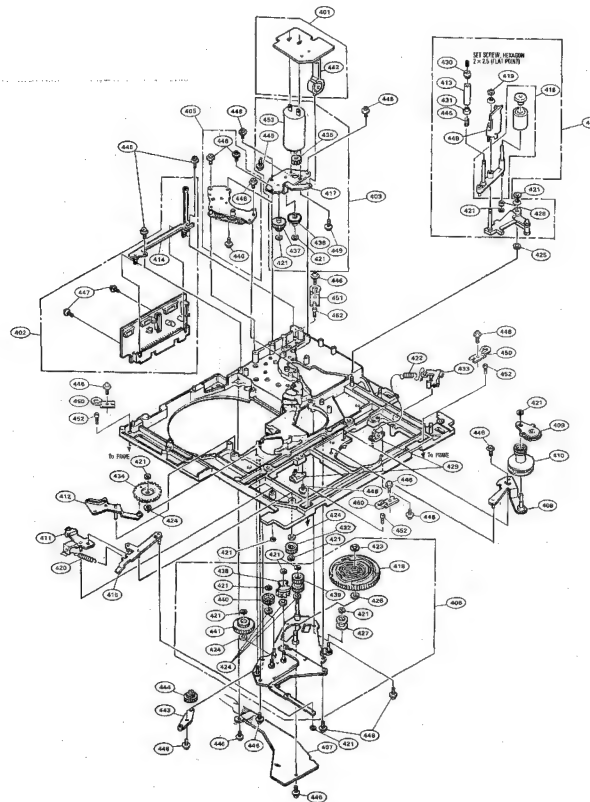
No.	Part No.	SP Description
301	A-6050-611-A	s HEAD DRUM ASSY DBH-14A-R (EK)
302	A-6050-648-A	s BRUSH ASSY
303	A-6050-652-A	s SLIP RING ASSY
304	A-6050-673-A	s HEAD DRUM ASSY DBH-15A-R (J, UC)
305	A-6762-406-A	s UPPER DRUM ASSY DBR-14A-R (EK)
306	A-6762-418-A	s UPPER DRUM ASSY DBR-15A-R (J, UC)
307	3-717-148-01	o COVER, BLUSH
308	3-717-150-01	s SPACER, FRANGE (0.017)
309	3-717-150-11	s SPACER, FRANGE (0.031)
310	3-717-150-21	s SPACER, FRANGE (0.057)
311	3-729-012-01	s SCREW (M2X5)
312	3-717-178-03	o SUPPORT, BRUSH

LOADING GEAR/CAM GEAR

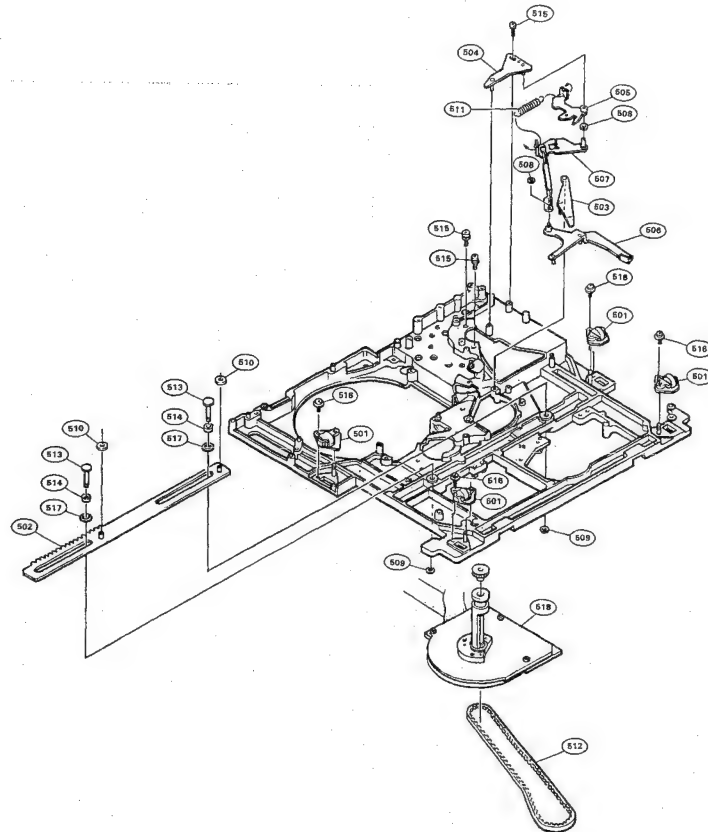
LOADING GEAR/CAM GEAR

No.	Part No.	SP Description
401	A-6725-602-A	o MOUNTED CIRCUIT BOARD, LD-21
402	A-6725-604-A	o MOUNTED CIRCUIT BOARD, TB-5
403	A-6737-190-C	o MOTOR ASSY, LOADING
404	A-6747-262-F	o ARM ASSY, PINCH
405	A-6750-231-B	s GEAR BLOCK ASSY
406	A-6750-233-B	o GEAR SUB ASSY, CAM
407	A-6754-072-A	o MOUNTED CIRCUIT BOARD, SR-40
408	X-3722-304-1	o BASE ASSY
409	X-3722-306-3	s GEAR ASSY
410	X-3722-307-1	o PULLEY ASSY, MIDWAY
411	X-3722-308-1	o LEVER ASSY, RELEASE, ST
412	X-3722-316-1	o ARM ASSY, DRIVING
413	X-3722-319-1	s ROLLER ASSY
414	X-3722-343-1	o HOLDER (40P) ASSY, CONNECTOR
415	X-3722-357-1	o LINK ASSY, EJECT
416	X-3722-363-1	s PINCH ASSY, SUB
417	X-3722-364-3	o BRACKET ASSY, MOTOR
418	X-3722-369-2	s CAM ASSY, FUNCTION
419	3-321-813-01	s WASHER, COTTER POLYETHYLENE
420	3-531-794-00	s SPRING, TENSION
421	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2
422	3-668-508-00	s SPRING, TENSION
423	3-669-595-00	s WASHER (2), STOPPER
424	3-701-436-11	s WASHER, 1.6 POLYETHYLENE
425	3-701-438-01	s WASHER
426	3-701-438-21	s WASHER
427	3-722-369-01	s PULLEY, IDLER
428	3-722-382-01	s ROLLER, PINCH ARM
429	3-722-390-01	o HOOK, SPRING, SHUTTER
430	3-722-400-02	s FLANGE (C), UPPER
431	3-722-401-02	s FLANGE (A), LOWER
432	3-722-430-01	o GEAR, JOINT
433	3-722-460-01	o SHUTTER, CASSETTE DETECTION
434	3-723-010-01	o GEAR, REEL SLIDER DRIVING
435	3-723-062-01	o GEAR (MD)
436	3-723-064-01	s GEAR (M1)
437	3-723-065-01	s GEAR (M2)
438	3-723-080-02	o GEAR, CLUB
439	3-723-081-01	o GEAR (T)
440	3-723-082-02	o GEAR, T DRIVING MIDWAY
441	3-723-083-02	o GEAR, ST DRIVING
442	3-723-091-01	o HOLDER, TOP SENSER
443	3-725-206-01	o BRACKET, T GEAR
444	3-725-207-02	o GEAR, T DRIVING
445	3-729-011-01	s SPRING, COMPRESSION
446	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)
447	3-729-013-41	s SCREW (M1.4X3.5), WASHERHEAD (+P)
448	3-729-046-02	o GUARD, PINCH TAPE
449	3-729-076-01	s SCREW (+B) (2X3)
450	3-729-081-01	o RETAINER (A), SCREW
451	3-729-082-01	o RETAINER (B), SCREW
452	3-729-084-21	s BOLT (M2X5), HEXAGON HOLE
453	8-835-308-01	s MOTOR, DC LA18-S1N1B

LOADING GEAR/CAM GEAR



PINCH PRESS MECHANISM



PINCH PRESS MECHANISM

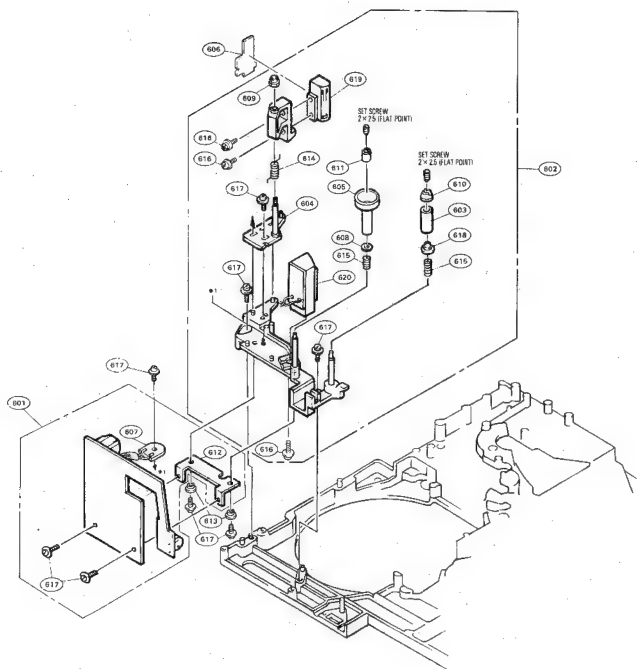
No.	Part No.	SP Description
501	X-3722-301-1	o ROLLER ASSY, REEL CHASSIS
502	X-3722-309-1	o SLIDER ASSY, REEL
503	X-3722-310-3	o LEVER ASSY, BRAKE
504	X-3722-311-1	o SUPPORT ASSY, P LEVER
505	X-3722-312-1	o LEVER (C) ASSY, PRESS
506	X-3722-345-1	o JOINT ASSY, PINCH
507	X-3722-346-2	o LEVER ASSY, PRESS
508	3-559-408-00	o POLY-WASHER, 1.2 DIA
509	3-559-408-11	o WASHER, POLYETHYLENE, DIA. 1.2
510	3-701-439-21	o WASHER
511	3-701-788-XX	o SPRING, TENSION
512	3-722-452-01	o BELT, TIMING
513	3-723-008-01	o RETAINER, ROLLER
514	3-723-009-01	o ROLLER, SLIDER PLATE
515	3-729-012-01	o SCREW (M2X5)
516	3-729-013-21	o SCREW (M1.4X2.5), WASHERHEAD (+P)
517	3-729-025-01	o WASHER
518	8-835-313-01	o MOTOR, DC U-19A

CTL HEAD BASE

CTL HEAD BASE

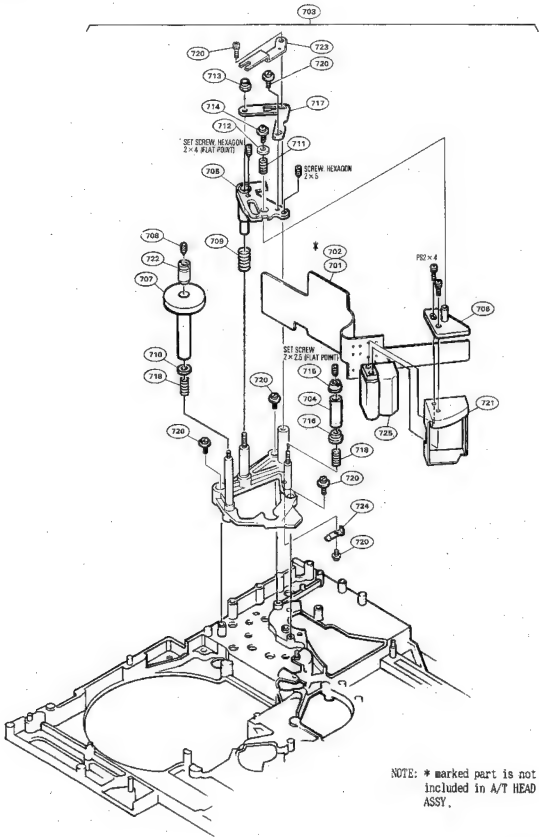
No.	Part No.	SP Description
601	A-6725-603-A	o MOUNTED CIRCUIT BOARD, PB-4
602	A-6736-080-D	o HEAD SUB ASSY, CTL
603	X-3722-322-1	s ROLLER ASSY, POM
604	X-3722-341-1	o PLATE ASSY, HEAD, CTL
605	X-3722-342-4	s IR-1 ASSY
606	1-625-969-11	o PRINTED CIRCUIT BOARD, DUS-246
607	1-806-682-71	s SENSOR, DEW CONDENSATION
608	3-557-565-00	s WASHER, 1.4 DIA, SMALL
609	3-698-829-01	s NUT (M2)
610	3-722-400-02	s FLANGE (C), UPPER
611	3-722-402-02	o NUT, IR
612	3-722-419-01	o HOLDER, PE-4
613	3-722-420-01	s SPACER, PB-4 HOLDER
614	3-723-092-02	s SPRING
615	3-729-011-01	s SPRING, COMPRESSION
616	3-729-012-01	s SCREW (M2X5)
617	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)
618	3-742-003-01	s FLANGE (S), LOWER
619	8-825-560-40	s HEAD, CTL (RS-253-21)
620	8-825-772-61	s HEAD, ERASE BF291-21A

CTL HEAD BASE



M/T HEAD BASE

A/T HEAD BASE



NOTE: * marked part is not included in A/T HEAD ASSY.

A/T HEAD BASE

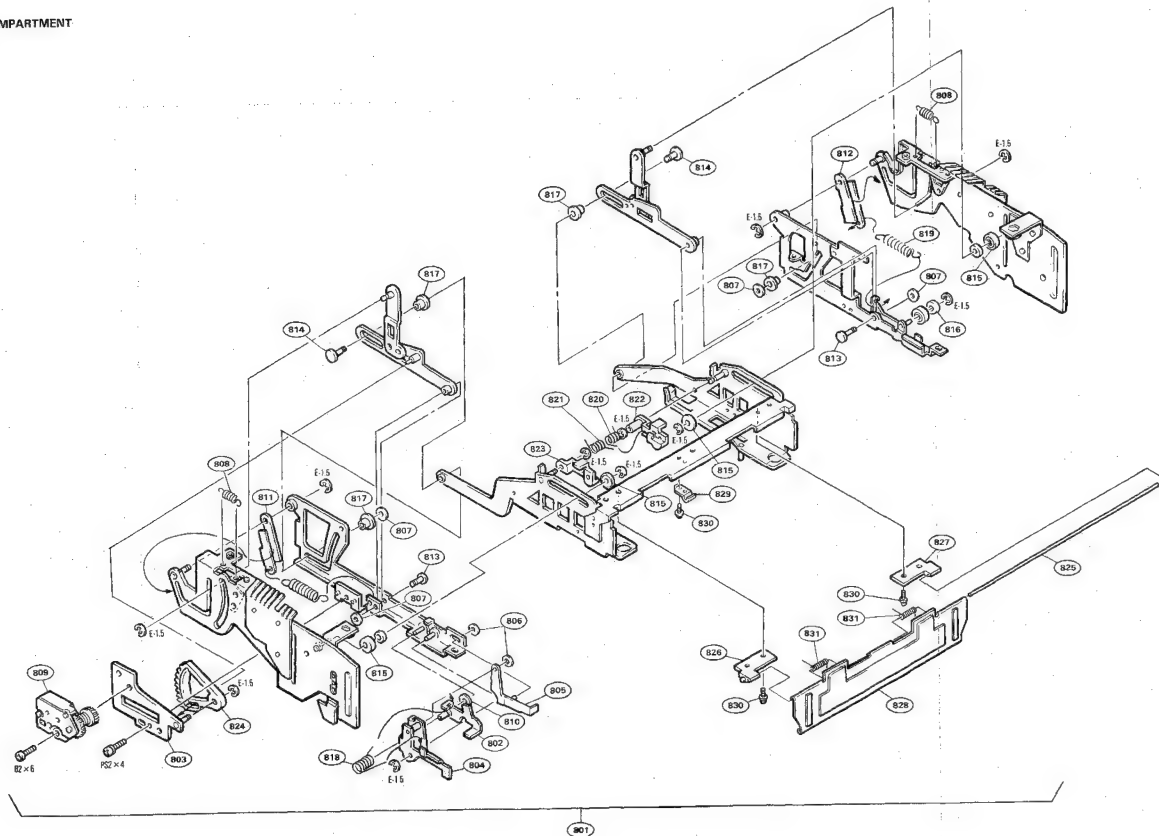
No.	Part No.	SP Description
701	A-6713-332-A	o MOUNTED CIRCUIT BOARD, PL-55 (J,UC)
702	A-6713-349-A	o MOUNTED CIRCUIT BOARD, PL-55P (EK)
703	A-6736-078-A	o HEAD ASSY, A/T (NOT INCLUDING PL-55/55P BOARD)
704	X-3722-319-1	s ROLLER ASSY
705	X-3722-338-3	o PLATE (UPPER) ASSY, A/T
706	X-3722-339-3	o PLATE (LOWER) ASSY, A/T
707	X-3722-340-3	s IR-3 ASSY
708	2-123-868-02	s SCREW (2X6)
709	3-534-236-00	s SPRING, COMPRESSION
710	3-557-565-00	s WASHER, 1/4 DIA, SMALL
711	3-669-316-00	s SPRING, COMPRESSION
712	3-695-567-01	s WASHER, W SLIDER
713	3-698-829-01	s NUT (M2)
714	3-703-502-31	s SCREW
715	3-722-400-02	s FLANGE (C), UPPER
716	3-722-401-02	s FLANGE (A), LOWER
717	3-722-412-15	o DAMPER, A/T
718	3-729-011-01	s SPRING, COMPRESSION
720	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (-P)
721	3-729-027-11	o CASE, SHIELD, A/T
722	3-729-066-01	o NUT, IR-3
723	3-729-067-02	o PLATE, INDICATION, IR-3
724	3-742-002-01	o DAMPER, W & P
725	8-825-749-02	s HEAD, AU PPS244-2103

CASSETTE-UP COMPARTMENT

CASSETTE-UP COMPARTMENT

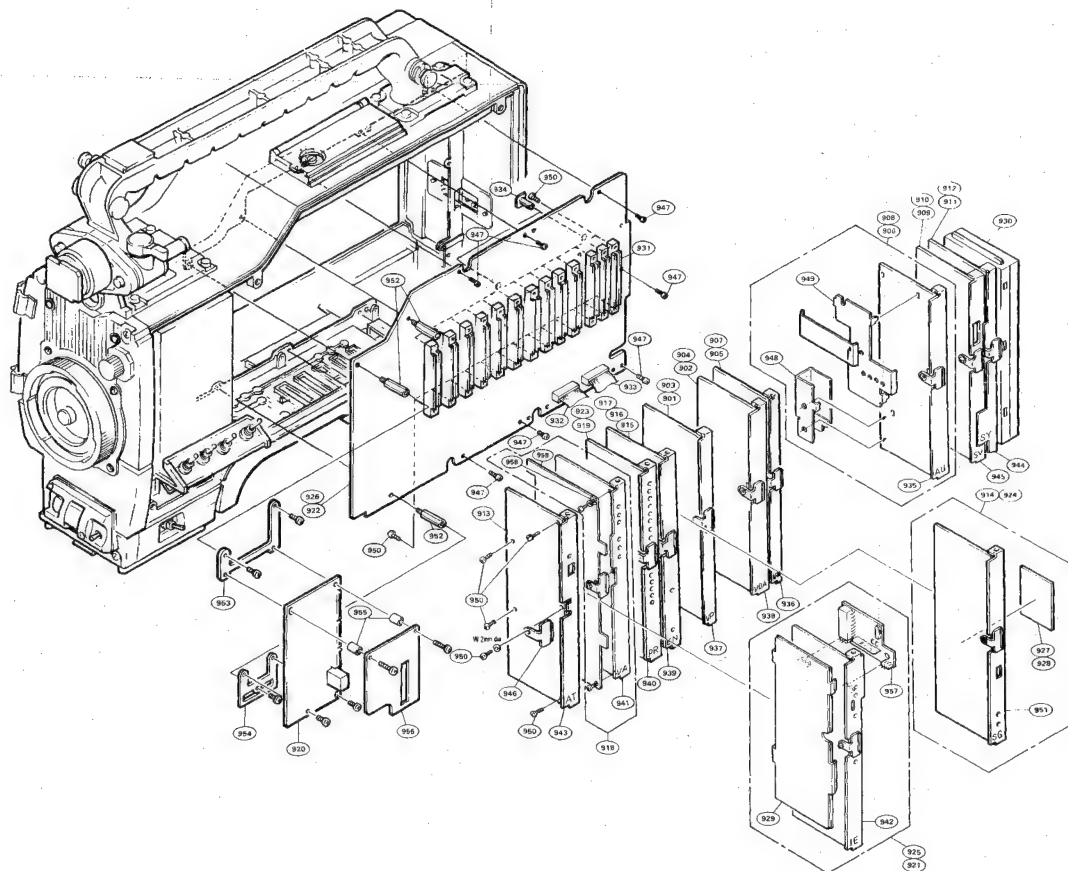
No.	Part No.	SP Description
801	A-6751-381-F	s CASSETTE COMPARTMENT ASSY
802	X-3722-358-3	s STOPPER ASSY
803	X-3722-361-2	o FITTING ASSY, DAMPER
804	X-3722-381-4	s ARM ASSY, LOCK
805	X-3722-412-1	o LEVER ASSY, RELEASE
806	3-315-384-11	s WASHER, STOPPER
807	3-321-813-01	s WASHER, COTTER POLYETHYLENE
808	3-674-402-00	s SPRING, TENSION
809	3-681-528-00	o DAMPER
810	3-701-436-21	s WASHER, POLYETHYLENE
811	3-723-016-01	o LEVER (RIGHT), LID OPEN
812	3-723-017-01	o LEVER (LEFT), LID OPEN
813	3-723-042-01	o SHAFT, LINK
814	3-723-043-01	o SHAFT, CASSETTE HOLDER
815	3-723-044-01	o RETAINER, BEARING
816	3-723-044-11	o RETAINER, BEARING
817	3-723-045-02	o ROLLER, HOLDER SLIDE
818	3-723-052-01	s SPRING (A), TENSION
819	3-723-053-01	s SPRING (A), TENSION
820	3-723-054-01	o SPRING (L), CASSETTE RETAINER
821	3-723-055-01	s SPRING (R), CASSETTE RETAINER
822	3-723-067-01	o RETAINER (LEFT), CASSETTE
823	3-723-068-01	o RETAINER (RIGHT), CASSETTE
824	3-723-086-01	o GEAR, DAMPER DRIVING
825	3-723-087-01	s SHAFT (A), BLIND PLATE
826	3-723-088-02	s GUIDE (RIGHT), CASSETTE
827	3-723-089-02	s GUIDE (LEFT), CASSETTE
828	3-723-090-03	s PLATE (A), BLIND
829	3-725-298-01	o PLATE, INDICATION, BLIND
830	3-729-013-21	s SCREW (M1.4X2.5), WASHER/GAD (+P)
831	3-695-515-02	o SPRING

CASSETTE-UP COMPARTMENT



PRINT CIRCUIT BOARD

J : S/N UP TO 30814
UC : S/N UP TO 10386
BK : S/N UP TO 40414



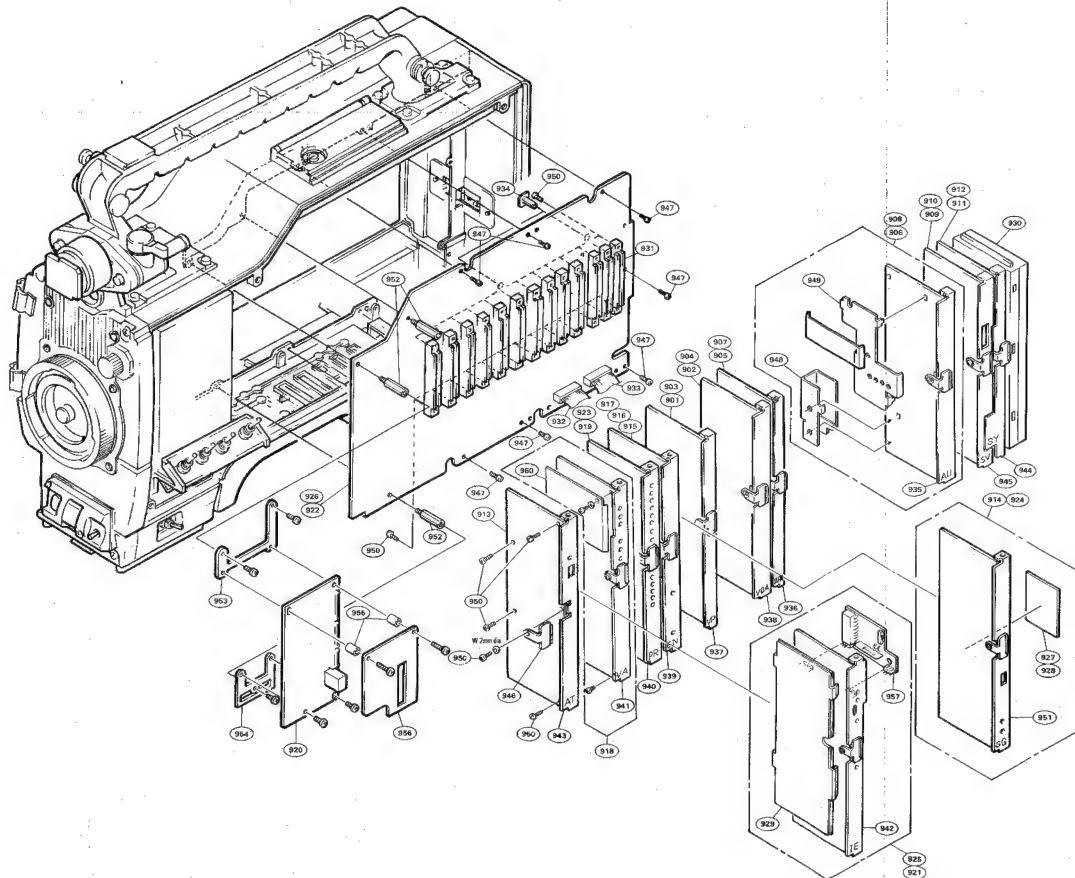
13-27(a)

13-28(a)

BVW-400 (J/UC)
BVW-400P (BK)

PRINT CIRCUIT BOARD

J : S/N 30815 TO 30894
UC : S/N 10387 TO 10514
EK : S/N 40415 TO 40603



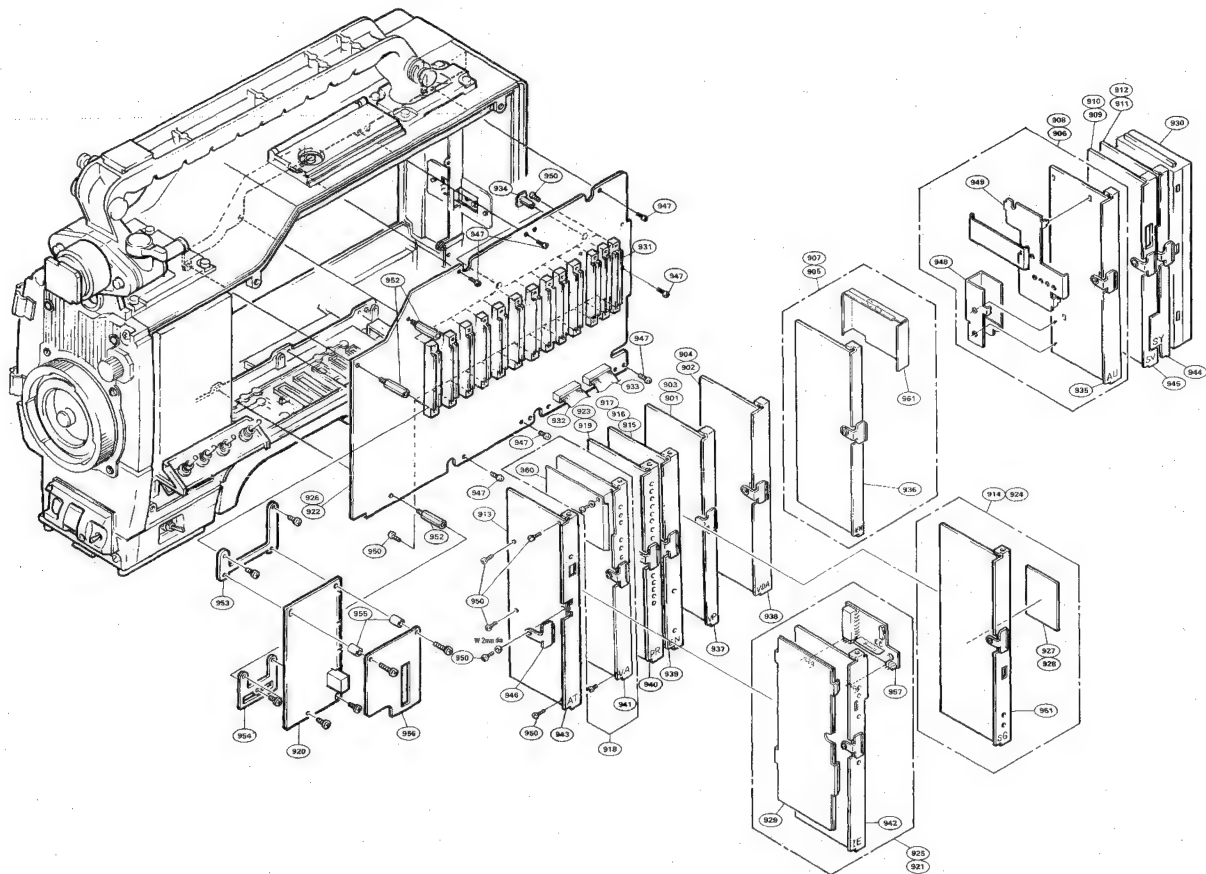
13-28(b)

BVW-400 (J/UC)
BVW-400P (EK)



PRINT CIRCUIT BOARD

J : S/N 30895 AND HIGHER
 UC : S/N 10515 AND HIGHER
 EX : S/N 40604 AND HIGHER



PRINT CIRCUIT BOARD

No. Part No. SP Description

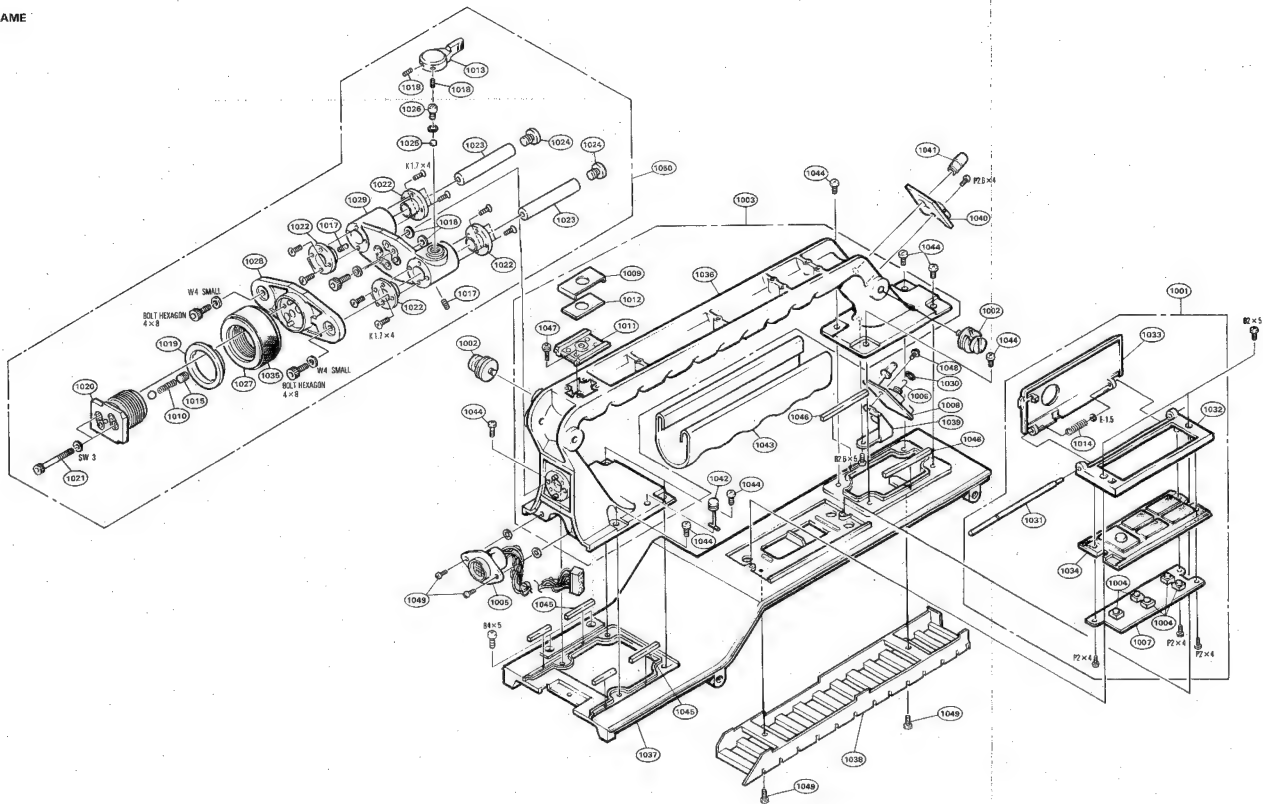
901	A-6711-932-B	o MOUNTED CIRCUIT BOARD, VP-24 (J, UC)	951	3-734-321-01	o PLATE (SG-152), ORNAMENTAL
902	A-6711-933-B	o MOUNTED CIRCUIT BOARD, VDA-11 (J, UC)	952	3-742-031-01	o SUPPORT (IF)
903	A-6711-992-A	o MOUNTED CIRCUIT BOARD, VP-24P (EK)	953	3-742-032-01	o BRACKET (A), IF
904	A-6711-993-A	o MOUNTED CIRCUIT BOARD, VDA-11P (EK)	954	3-742-033-01	o BRACKET (B), IF
905	A-6713-319-B	o MOUNTED CIRCUIT BOARD, APM-6 (J, UC)	955	3-742-072-01	o SPACER (IF)
906	A-6713-320-A	o MOUNTED CIRCUIT BOARD, AU-97 (J, UC)	956	3-742-073-01	o COVER, IF
907	A-6713-350-A	o MOUNTED CIRCUIT BOARD, AFW-6P (EK)	957	A-7520-521-A	o MOUNTED CIRCUIT BOARD, IE-31
908	A-6713-351-A	o MOUNTED CIRCUIT BOARD, AU-97P (EK)	S/N	30015	AND HIGHER (J)
909	A-6715-436-A	o MOUNTED CIRCUIT BOARD, SV-97A (J, UC)		10011	AND HIGHER (UC)
910	A-6715-438-A	o MOUNTED CIRCUIT BOARD, SV-97AP (EK)		40001	AND HIGHER (EK)
911	A-6717-578-A	o MOUNTED CIRCUIT BOARD, SY-117C (J, UC)	958	3-166-513-01	o SHEET (VA) CONDUCTIVE
912	A-6717-577-A	o MOUNTED CIRCUIT BOARD, SY-117CP (EK)	959	3-166-514-01	o PLATE (VA), SHIELD
913	A-7513-844-A	o MOUNTED CIRCUIT BOARD, AT-49A	S/N	UP TO 30164 (J)	
914	A-7513-846-A	o MOUNTED CIRCUIT BOARD, SG-152 (J, UC)		UP TO 10096 (UC)	
915	A-7513-849-A	o MOUNTED CIRCUIT BOARD, EN-79U (UC)		UP TO 40034 (EK)	
916	A-7513-850-A	o MOUNTED CIRCUIT BOARD, EN-79 (J)	3-167-326-01	o PLATE (VA), SHIELD	
917	A-7513-861-A	o MOUNTED CIRCUIT BOARD, EN-79P (EK)	S/N	30165 TO 30814 (J)	
918	A-7515-147-A	o MOUNTED CIRCUIT BOARD, VA-104		10097 TO 10386 (UC)	
919	A-7515-148-A	o MOUNTED CIRCUIT BOARD, PR-132AU (UC)		40035 TO 40414 (EK)	
920	A-7515-149-A	o MOUNTED CIRCUIT BOARD, IF-298	960	3-172-056-02	o PARTITION
921	A-7515-150-A	o MOUNTED CIRCUIT BOARD, IE-30 (J, UC)	S/N	30815 AND HIGHER (J)	
922	A-7515-151-A	o MOUNTED CIRCUIT BOARD, MB-317 (J, UC)		10387 AND HIGHER (UC)	
923	A-7515-153-A	o MOUNTED CIRCUIT BOARD, PK-132A (J, EK)		40415 AND HIGHER (EK)	
924	A-7515-155-A	o MOUNTED CIRCUIT BOARD, SG-152AP (EK)	961	X-3166-340-1	s PLATE (APM), SHIELD
925	A-7515-156-A	o MOUNTED CIRCUIT BOARD, IE-30P (EK)	S/N	30895 AND HIGHER (J)	
926	A-7515-157-A	o MOUNTED CIRCUIT BOARD, MB-317P (EK)		10515 AND HIGHER (UC)	
927	A-7520-420-A	o MOUNTED CIRCUIT BOARD, SG-157 (J, UC)		40604 AND HIGHER (EK)	
928	A-7520-489-A	o MOUNTED CIRCUIT BOARD, SG-157P (EK)			
929	X-3722-411-5	o PLATE (CARD) ASSY, SHIELD			
930	1-464-995-21	s CONVERTER, DC-DC (CD-89B)			
931	1-566-962-11	o CONNECTOR, BOARD TO BOARD SOP			
932	1-625-891-11	s PRINTED CIRCUIT BOARD, FL-45			
933	1-625-892-11	s PRINTED CIRCUIT BOARD, FL-46			
934	3-722-391-01	o HOLDER, GP2S09			
935	3-724-704-01	o PLATE (AU-97), ORNAMENTAL			
936	3-724-705-01	o PLATE (APM-6), ORNAMENTAL			
937	3-724-706-01	o PLATE (VP-24), ORNAMENTAL			
938	3-724-707-01	o PLATE (VDA-11), ORNAMENTAL			
939	3-724-709-01	o PLATE (EN-62), ORNAMENTAL			
940	3-724-710-01	o PLATE (PR-102), ORNAMENTAL			
941	3-724-711-02	o PLATE (VA-62), ORNAMENTAL			
942	3-724-712-02	o PLATE (IE-20), ORNAMENTAL			
943	3-724-713-01	o PLATE (AT-49), ORNAMENTAL			
944	3-724-714-01	o PLATE (SY-117), ORNAMENTAL			
945	3-724-715-01	o PLATE (SV-97), ORNAMENTAL			
946	3-724-753-01	o RING, PRB			
947	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)			
948	3-729-031-01	o CASE, (AU-1) SHIELD			
949	3-729-032-03	o CASE, (AU-2) SHIELD			
950	3-729-061-01	s SCREW (M2X4.5), (TYPE 1)			

TOP FRAME

TOP FRAME

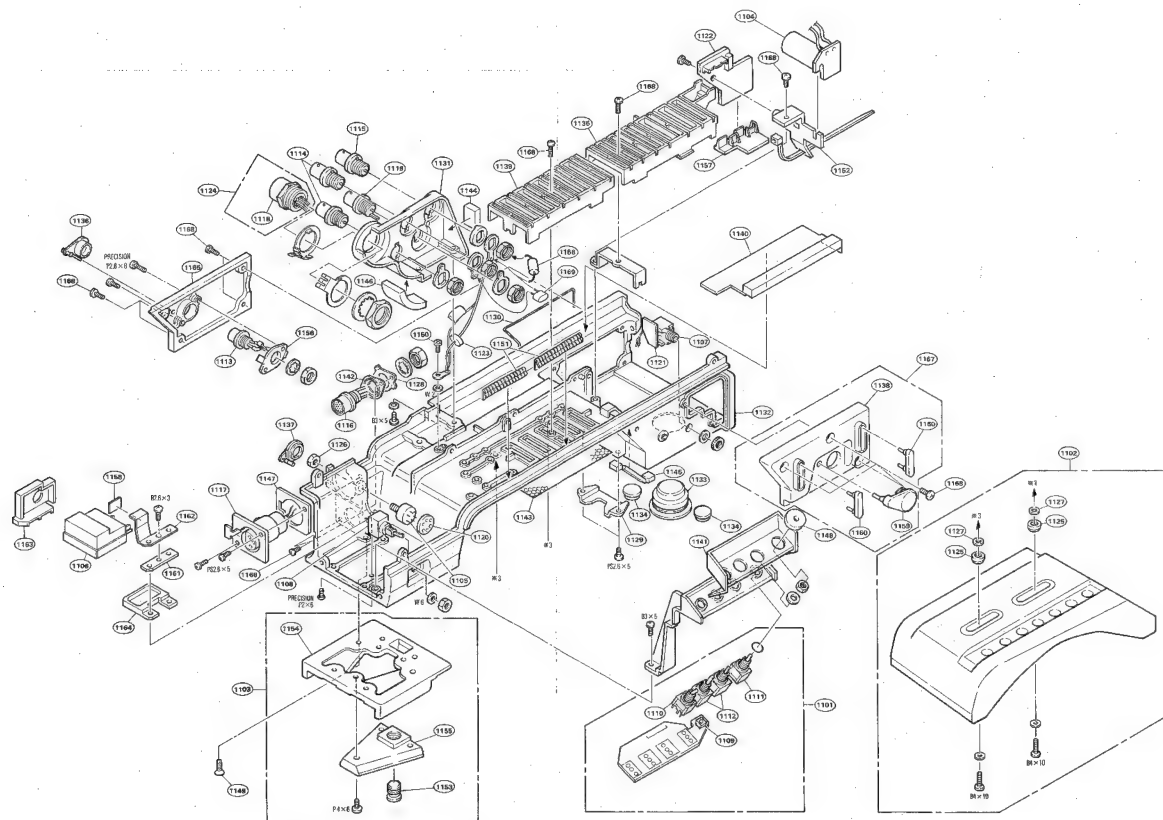
No.	Part No.	SP Description
1001	A-6731-155-A	s KEY BOARD ASSY
1002	X-3672-208-2	o SUSPENSION ASSY (B)
1003	X-3722-370-4	o HANDLE ASSY
1004	1-554-371-51	s SWITCH, TACT
1005	1-565-051-11	o CONNECTOR, ROUND (WITH C) 20P
1006	1-570-608-11	s SWITCH, TOGGLE
1007	1-625-549-11	o PRINTED CIRCUIT BOARD, KY-124
1008	1-625-555-13	o PRINTED CIRCUIT BOARD, SW-291
1009	2-277-468-01	o PLATE, ORNAMENTAL, CAMERA SHOE
1010	3-641-622-00	s SPRING, COMPRESSION
1011	3-657-700-00	s BRACKET, ACCESSORY
1012	3-672-213-00	o SHEET, ADHESIVE
1013	3-673-046-00	s LEVER, LOCK
1014	3-673-281-00	o SPRING, COMPRESSION
1015	3-682-760-01	o SCREW (M7-0, 75), ADJUSTMENT
1016	3-685-166-01	o WASHER, SCREW CLAMP
1017	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
1018	3-701-508-00	s SET SCREW, DOUBLE POINT 3X6
1019	3-710-018-01	s COLLAR, SLIDE
1020	3-710-039-03	s SHOE, SLIDE
1021	3-711-765-01	s BOLT (M3), HEXAGON SOCKET
1022	3-711-790-01	o SPACER (A)
1023	3-711-791-01	o ARM
1024	3-711-792-01	o SCREW
1025	3-711-793-01	o CUSHION (STOPPER)
1026	3-711-794-01	o PIN, STOPPER
1027	3-711-795-01	o RING (B), LOCK
1028	3-711-796-03	o LABEL, FIXED, VF SHOE
1029	3-711-797-06	o LABEL, FIXED, VF SLIDE
1030	3-717-825-01	o RING, O
1031	3-717-854-01	o SHAFT, KEY BOARD COVER
1032	3-718-042-21	o FRAME, KEY BOARD
1033	3-718-043-21	o COVER, KEY BOARD
1034	3-718-044-01	s COVER, KEY BOARD RUBBER
1035	3-720-919-01	o RUBBER, LOCK RING
1036	3-722-467-05	o HANDLE
1037	3-722-469-02	o FRAME, TOP
1038	3-724-736-01	o GUIDE (UPPER), PC BOARD
1039	3-724-762-01	s HOLDER
1040	3-724-763-01	o COVER, BT
1041	3-724-764-01	s HOLDER, LED
1042	3-725-234-01	s RUBBER (DIA. 7), DROP PROTECTION
1043	3-725-260-01	s GRIP, RUBBER
1044	3-725-295-01	s SCREW, (+) (B3)
1045	3-725-296-11	s FILTER (HANDLE)
1046	3-725-296-21	s FILTER (HANDLE)
1047	3-729-012-01	s SCREW (M2X5)
1048	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)
1049	3-166-603-01	s SCREW (2.6), +B
1050	A-7612-331-E	o SLIDE ASSY, VF

TOP FRAME



BOTTOM FRAME

BOTTOM FRAME



BOTTOM FRAME

No. Part No. SP Description

1101 A-7520-307-A o MOUNTED CIRCUIT BOARD, SW-220
1102 A-7612-315-A s PAD ASSY, SHOULDER
1103 A-7612-385-A s SHOE (B) ASSY, V
1104 1-124-440-11 s CAP, ELECT 3300MF
1105 1-223-165-00 s RES, ADJ, WIREWOUND 10k

1106 1-466-158-13 s CONVERTER UNIT, DC-DC
1107 1-507-980-11 s JACK
1108 1-553-448-00 s SWITCH, TOGGLE
1109 1-553-856-00 s SWITCH, KEY BOARD
1110 1-554-355-00 s SWITCH, TOGGLE

1111 1-554-356-00 s SWITCH, TOGGLE
1112 1-554-400-00 s SWITCH, TOGGLE
1113 1-561-233-21 s CONNECTOR, 6P
1114 1-561-781-11 s CONNECTOR, BNC
1115 1-561-781-21 s CONNECTOR, BNC

1116 1-562-221-21 s CONNECTOR, 12P
1117 1-563-029-21 s CONNECTOR, 3P
1118 1-563-971-11 s CONNECTOR, 20P
1119 1-565-764-11 s CONNECTOR ASSY, BNC
1120 1-625-554-13 o PRINTED CIRCUIT BOARD, VR-77

1121 1-627-593-11 o PRINTED CIRCUIT BOARD, HP-43
1122 1-634-967-11 o PRINTED CIRCUIT BOARD, CM-400
1123 1-806-504-11 s VARISTOR ERZ-C050K820
1124 1-940-619-11 o HARNESS, SUB (ADP)
1125 3-646-184-00 s SPACER

1126 3-664-519-00 o NUT (M4)
1127 3-687-116-01 o WASHER, (4), STOPPER
1128 3-729-092-01 o BRACKET (A)
1129 3-711-703-01 o STOPPER
1130 3-711-715-01 o RUBBER, SHIELD

1131 3-722-462-03 o FRAME, BNC
1132 3-722-471-03 o FRAME, BOTTOM
1133 3-723-096-01 o COVER, BREAKER
1134 3-723-097-01 o FOOT, RUBBER
1135 3-724-720-01 o GUIDE (LOWER REAR), PC BOARD

1136 3-724-730-02 s RUBBER (BA), DROP PROTECTION
1137 3-724-731-02 s RUBBER (PB), DROP PROTECTION
1138 3-724-734-04 o PANEL, MAIN SWITCH ORNAMENTAL
1139 3-724-735-01 o GUIDE (LOWER FRONT), PC BOARD
1140 3-725-226-01 o PARTITION (L)

1141 3-725-243-01 s RUBBER (CAM), DROP PROTECTION
1142 3-725-257-01 o SPACER (LENS)
1143 3-729-002-01 s FILTER, VENTILATION
1144 3-729-003-01 o FILTER (LEFT SIDE PLATE 2)
1145 3-729-004-01 s FILTER (BOTTOM 2)

1146 3-729-005-01 s FILTER (BNC)
1147 3-729-006-01 s SHEET (AUDIO), DROP PROTECTION
1148 3-729-007-01 o PLATE, ORNAMENTAL, TOGGLE SW
1149 3-729-072-01 s SCREW, +K (4X8)
1150 3-729-076-11 s SCREW (+B) (2X4)

1151 3-729-095-01 o SHIELD, FINGER
1152 3-734-732-02 o HOLDER, CONDENSER
1153 3-742-011-01 s SCREW, 1/4, 3/8 CONVERSION
1154 3-742-012-01 s SHOE (B), CAMERA
1155 3-742-015-01 o WEDGE (B), MOUNTING

1156 3-742-016-01 o BRACKET, REMOTE
1157 3-742-029-01 o GUIDE, PC BOARD
1158 3-742-030-01 o SHEET (DD), INSULATING
1159 3-742-034-01 s RUBBER (EJ), DROP PROTECTION
1160 3-742-035-01 o STOPPER, ORNAMENTAL PANEL

1161 3-742-036-01 o BRACKET, DO CONVERTER
1162 3-742-047-01 o RETAINER, DO CONVERTER
1163 3-742-048-01 o HOLDER, DO CONVERTER
1164 3-742-049-01 o SPACER, DO CONVERTER
1165 3-742-050-01 o BRACKET, REMOTE

1166 1-249-404-00 s RES, CARBON (SMALL) 82
1167 X-5165-012-2 o PANEL ASSY, ORNAMENTAL, SWITCH
1168 3-166-603-01 s SCREW (2.6), +B
1169 1-162-710-11 s CERAMIC, LOOP IN 50V (C1)

No.	Part No.	SP Description
1201	ΔA-6723-360-A	o MOUNTED CIRCUIT BOARD, PS-162J (J)
1202	ΔA-6723-368-A	o MOUNTED CIRCUIT BOARD, PS-162 (UC, EK)
1203	X-3722-373-1	o HINGE (L) ASSY, SIDE PLATE
1204	X-3722-374-1	o FRAME SUB ASSY, REAR
1205	1-563-029-21	s CONNECTOR, 3P MALE (UC, EK)
1206	1-563-030-21	o CONNECTOR, 3P FEMALE (J)
1207	1-564-603-11	s CONNECTOR, (WITH DC SW) 4P
1208	1-565-072-11	s CONNECTOR, 4P
1209	1-565-764-11	s CONNECTOR ASSY, BNC
1210	1-570-610-11	s SWITCH, TOGGLE (UC, EK)
1211	1-625-895-11	s PRINTED CIRCUIT BOARD, FL-57
1212	3-711-715-01	o RUBBER, SHIELD
1213	3-718-028-01	o HOLDER, TERMINAL
1214	3-722-484-01	o SPACER, SW
1215	3-724-723-01	s RUBBER (BATT), DROP PROTECTION
1216	3-724-752-01	o HOLDER (PS), PC BOARD
1217	3-725-227-01	o BUSHING (P48) (J)
1218	3-725-239-01	s RUBBER (P48), DROP PROTECTION (UC, EK)
1219	3-725-295-11	s SCREW (+) (63)
1220	3-729-009-04	o INSULATOR (BATT)
1221	3-729-012-01	s SCREW (M2X5)
1222	3-729-035-01	s COVER, REAR CONNECTOR
1223	3-729-076-01	s SCREW (+B) (2X3)
1224	3-729-076-11	s SCREW (+B) (2X4)

REAR FRAME

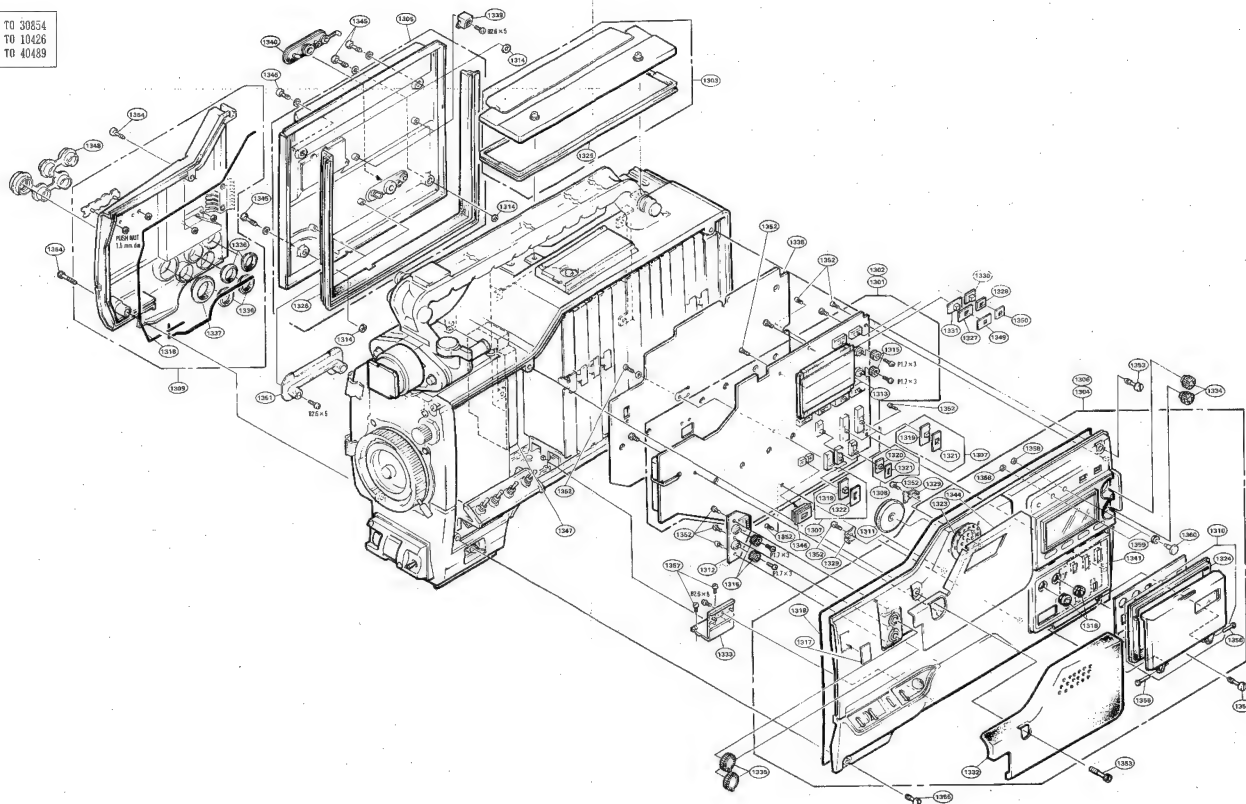
This exploded view diagram illustrates the assembly of a refrigerator door. The main door body is shown on the left, with various components being attached to its top and inner panels. Key components and their assembly order are indicated by circled numbers:

- Top Panel Assembly:** Components 1204, 1210, 1212, 1216, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, and 1226 are shown being attached to the top of the door.
- Inner Panel Assembly:** Components 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, and 1226 are shown being attached to the inner panel of the door.
- Door Hinge and Seal Components:** Components 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, and 1226 are shown being attached to the door hinge and seal area.
- Door Handle and Lock Components:** Components 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, and 1226 are shown being attached to the door handle and lock area.

The diagram includes various callouts for specific parts, such as "1201 for 1202", "1201 for 1203", "1201 for 1204", "1201 for 1205", "1201 for 1206", "1201 for 1207", "1201 for 1208", "1201 for 1209", "1201 for 1210", "1201 for 1211", "1201 for 1212", "1201 for 1213", "1201 for 1214", "1201 for 1215", "1201 for 1216", "1201 for 1217", "1201 for 1218", "1201 for 1219", "1201 for 1220", "1201 for 1221", "1201 for 1222", "1201 for 1223", "1201 for 1224", "1201 for 1225", and "1201 for 1226".

SIDE PLATE

J : S/N UP TO 30854
UC : S/N UP TO 10426
EK : S/N UP TO 40489

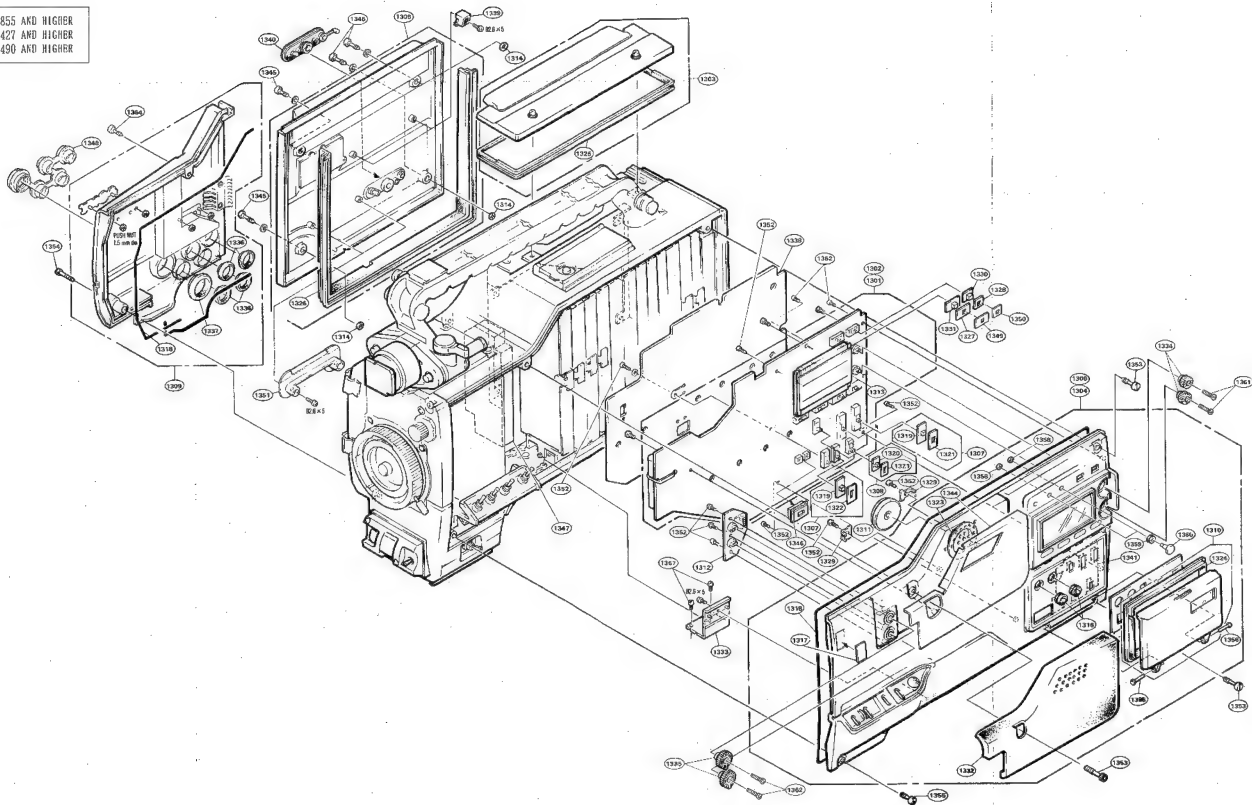


SIDE PLATE

SIDE PLATE

SIDE PLATE

J : S/N 30855 AND HIGHER
 UC : S/N 10427 AND HIGHER
 EK : S/N 40490 AND HIGHER



13-39(b)

13-40(b)

8VW-400 (J/UC)
 8VW-400P (EK)

SIDE PLATE

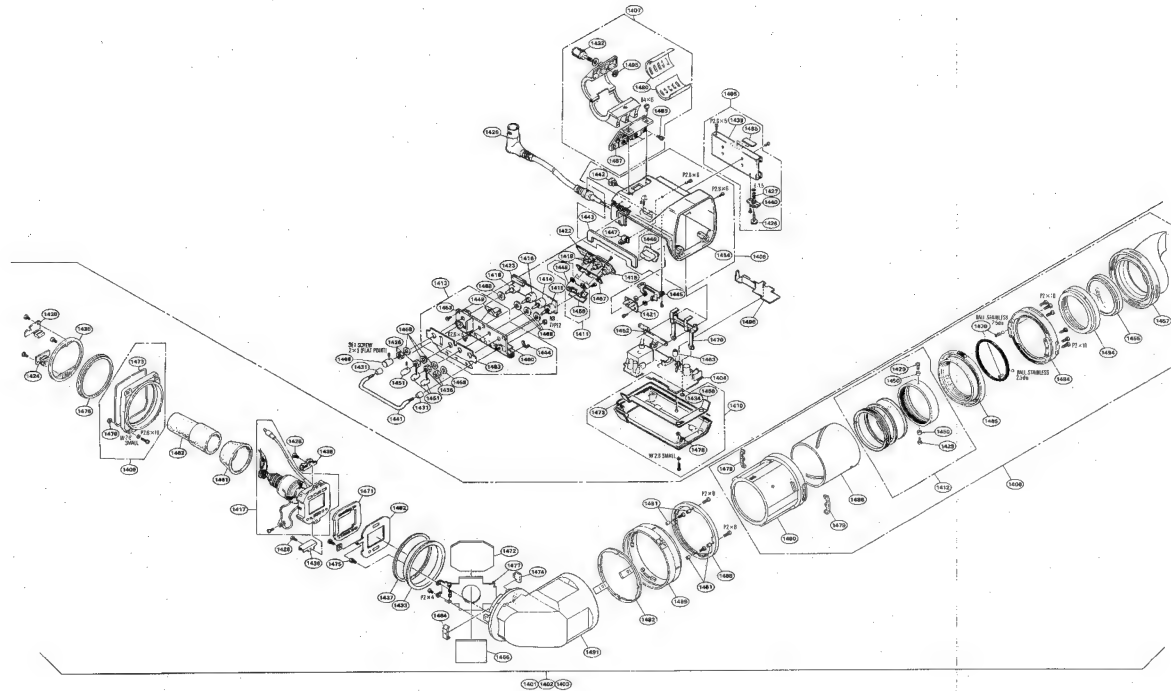
No.	Part No.	SP Description
1301	A-6713-363-A	o MOUNTED CIRCUIT BOARD, 7C-48A (J, UC)
1302	A-6713-372-A	o MOUNTED CIRCUIT BOARD, 7C-48AP (BK)
1303	X-3722-376-5	o PANEL ASSY, TOP
1304	X-3722-380-8	o PLATE SUB ASSY, SIDE, RIGHT (J, UC)
1305	X-3722-399-4	o LID SUB ASSY
1306	X-3722-415-6	o PLATE SUB ASSY (PAL), SIDE (EK)
1307	X-3722-416-1	o KNOB (A) (ORANGE) ASSY, SW
1308	X-3722-417-1	o KNOB (C) (ORANGE) ASSY, SW
1309	X-3722-438-2	o PLATE ASSY, SIDE, LEFT
1310	X-3722-440-1	o DOOR ASSY, ORNAMENTAL
1311	1-503-293-00	s SPEAKER
1312	1-625-553-13	o PRINTED CIRCUIT BOARD, VR-70
1313	1-808-502-11	s LCD-MODULE
1314	3-669-596-00	s WASHER (2, 3), STOPPER
1315	3-676-086-00	o SHAFT, KNOB
1316	3-676-244-00	s COVER, SWITCH
1317	3-678-607-02	o LABEL, FILTER
1318	3-711-715-01	o RUBBER, SHIELD
1319	3-717-900-01	o KNOB (A) (TC), SW
1320	3-717-901-01	o KNOB (C) (TC), SW
1321	3-717-902-21	o PLATE, ORNAMENTAL
1322	3-717-902-31	o PLATE, ORNAMENTAL
1323	3-724-716-02	s SHEET, DROP PROTECTION
1324	3-724-718-03	s RUBBER (DOOR), DROP PROTECTION
1325	3-724-721-02	s RUBBER (TOP), DROP PROTECTION
1326	3-724-722-02	s RUBBER (CA), DROP PROTECTION
1327	3-724-725-02	s RUBBER (SLIDE), DROP PROTECTION
1328	3-724-725-12	s RUBBER (SLIDE), DROP PROTECTION
1329	3-724-726-01	o HOLDER, SPEAKER
1330	3-724-727-01	s KNOB (LI), SW
1331	3-724-728-01	s KNOB (DL), SW
1332	3-724-733-01	o PAD, SIDE
1333	3-724-749-02	o HINGE (R), SIDE PLATE
1334	3-724-754-02	o KNOB (R), VR
	S/N	UP TO 30854 (J)
		UP TO 10426 (UC)
		UP TO 40489 (EK)
	3-171-996-01	s KNOB (R), VR
	S/N	30855 AND HIGHER (J)
		10427 AND HIGHER (UC)
		40490 AND HIGHER (EK)
1335	3-724-755-03	s KNOB (F), VR
	S/N	UP TO 30854 (J)
		UP TO 10426 (UC)
		UP TO 40489 (EK)
	3-171-996-01	s KNOB (F), VR
	S/N	30855 AND HIGHER (J)
		10427 AND HIGHER (UC)
		40490 AND HIGHER (EK)
1336	3-724-760-01	s RUBBER (BNC), DROP PROTECTION
1337	3-724-761-01	s RUBBER (PB), DROP PROTECTION
1338	3-725-225-01	o INSULATOR (TC)
1339	3-725-285-01	o STOPPER, CASSETTE
1340	3-725-287-01	s RUBBER, DROP PROTECTION
1341	3-725-290-03	s RUBBER (SW), DROP PROTECTION
1344	3-725-293-03	o TAPE (3), ADHESIVE, SIDE PAD
1345	3-725-295-11	s SCREW, (+) (B3)
1346	3-729-010-01	s RUBBER (VTC), DROP PROTECTION
1347	3-729-023-01	o FILTER (MAIN)
1348	3-729-036-01	o COVER, SIDE CONNECTOR
1349	3-729-044-01	s SHEET, SLIDE
1350	3-729-044-11	s SHEET, SLIDE
1351	3-729-052-02	o BRACKET, TAPE
1352	3-729-076-01	s SCREW (+B) (2X3)
1353	3-729-091-01	s SCREW (MAX17.5)
1354	3-729-091-21	s SCREW (MAX22.5)
1355	3-729-091-31	s SCREW (MAX10)
1356	3-743-800-01	o SHAFT, DOOR
1357	3-166-601-01	s SCREW (2.6), +B
1358	3-724-757-02	s RETAINER, SW, PUSH
1359	3-724-758-02	s RUBBER (PUSH), DROP PROTECTION
1360	3-724-759-03	s PUSH (SW)
1361	3-172-754-11	s SCREW, PRECISION +P1.7
	S/N	30855 AND HIGHER (J)
		10427 AND HIGHER (UC)
		40490 AND HIGHER (EK)
1362	3-172-754-01	s SCREW, PRECISION +P1.7
	S/N	30855 AND HIGHER (J)
		10427 AND HIGHER (UC)
		40490 AND HIGHER (EK)

VIEWFINDER

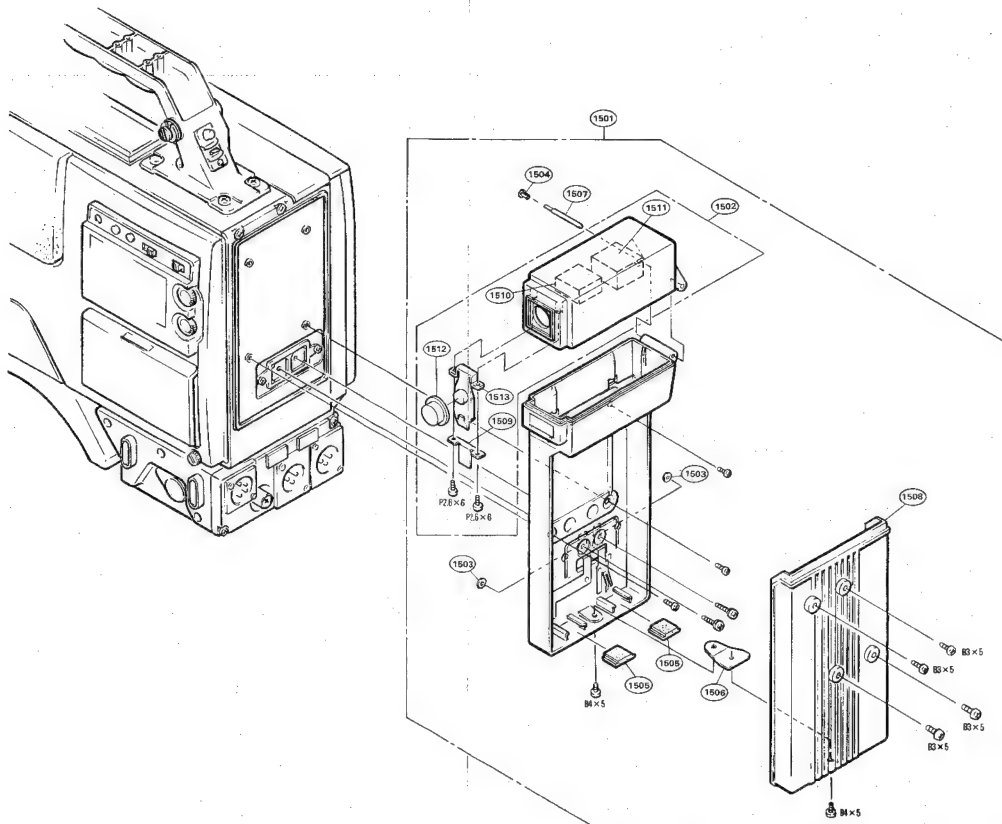
VIEWFINDER

No.	Part No.	SP Description	No.	Part No.	SP Description
1401	A-7403-125-A	o VF COMPLETE ASSY (J)	1451	3-722-486-01	s KNOB
1402	A-7403-132-A	o VF COMPLETE ASSY (UC)	1452	3-722-488-05	o BRACKET, PC BOARD
1403	A-7403-133-A	o VF COMPLETE ASSY (EK)	1453	3-722-494-01	o BRACKET, VR SW
1404	ΔA-7513-642-B	o MOUNTED CIRCUIT BOARD, VF-32	1454	3-723-002-12	o VF (MAIN)
1405	A-7612-320-B	o GUIDE ASSY, VF SLIDE	1455	3-723-069-02	o PROTECTOR, MC
1406	A-7612-389-A	s TUBE SUB ASSY, VF	1456	3-723-073-01	o CUSHION, MIRROR
1407	A-7612-390-A	o HOLDER ASSY, MICROPHONE	1457	3-723-079-01	s EYE CUP
1408	X-3710-050-5	o VF (MAIN) BLOCK ASSY	1458	3-724-744-03	o WASHER
1409	X-3722-366-6	o TUBE ASSY, VF ROTARY GUIDE	1459	3-724-745-01	o SHEET (C), INSULATING
1410	X-3722-368-5	o LID ASSY, VF	1460	3-724-746-01	o SHEET (B), INSULATING
1411	X-3722-425-1	o BRACKET ASSY, SW	1461	3-725-220-02	o TUBE (A), CRT
1412	X-3722-436-1	o LENS ASSY	1462	3-725-221-04	o TUBE (B), CRT
1413	X-3722-437-2	o BRACKET ASSY (C), VR, SW	1463	3-725-257-01	o BOSS
1414	1-238-290-11	s RES, VAR, CARBON 1k	1464	3-725-258-03	o STOPPER, ROTARY
1415	1-238-293-11	s RES, VAR, CARBON 10k	1465	3-725-275-01	o LABEL, LOCK
1416	1-238-296-11	s RES, VAR, CARBON 10k	1466	3-725-277-01	s KNOB (B)
1417	1-546-066-22	s 1.5" CRT ASSY	1467	3-725-278-01	s PACKING (SW), DROP PROTECTION
1418	1-570-984-11	s SWITCH, TOGGLE	1468	3-725-279-01	s PACKING (VR), DROP PROTECTION
1419	1-570-985-11	s SWITCH, TOGGLE	1469	3-725-280-01	s PACKING (A), DROP PROTECTION
1420	1-625-086-11	o PRINTED CIRCUIT BOARD, LP-40	1470	3-725-282-03	o HINGE, PC BOARD
1421	1-625-087-11	o PRINTED CIRCUIT BOARD, LP-42	1471	3-729-062-01	o SPACER, MASK
1422	1-625-088-12	o PRINTED CIRCUIT BOARD, SW-260	1472	3-729-099-01	o MIRROR
1423	1-625-089-11	o PRINTED CIRCUIT BOARD, VR-67	1473	3-729-701-21	s RUBBER (CARBON), CONDUCTIVE
1424	1-635-204-11	o PRINTED CIRCUIT BOARD, LP-58	1474	3-734-739-01	o SHEET, INSULATING, MASK
1425	1-945-970-11	s HARNESS (VF CABLE)	1475	3-734-740-01	o SUPPORT
1426	2-277-457-00	s KNOB, STOPPER	1476	3-734-760-01	o RING
1427	2-277-466-01	s SPRING, COMPRESSION	1477	3-742-001-01	o HOLDER (2), MIRROR
1428	3-165-162-01	s SCREW (+P2.6X5) (TYPE1)	1478	3-742-004-01	s RING, NYLON
1429	3-335-207-01	s SHAFT, MOTOR	1479	3-742-038-01	o NUT (2), PLATE
1430	3-573-150-00	s SPRING, COMPRESSION	1480	3-742-039-01	s CUSHION, MICROPHONE
1431	3-657-654-00	o RING, ORNAMENTAL	1481	3-742-045-01	o TUBE
1432	3-657-657-00	s SCREW (M5)	1482	3-742-046-01	o BRACKET, SAFETY
1433	3-672-241-00	o RING (B), SLEEVE	1483	3-742-051-01	o LABEL
1434	3-672-250-00	o RING (M2.6), O	1484	3-742-052-01	o HOLDER, EYE CUP
1435	3-680-595-01	o SUPPORT, ROTARY	1485	3-742-053-01	o RING
1436	3-685-104-01	s NUT (M6), CONTROL	1486	3-742-054-01	o TUBE
1437	3-685-118-01	o SPACER, RING	1487	3-742-057-01	o BASE, MICROPHONE HOLDER
1438	3-685-129-01	o SPRING (N), LEAF, VF	1488	3-742-058-01	o RING, FIXED
1439	3-710-007-02	o GUIDE, VF SLIDE	1489	3-742-059-01	o RING, HOLD
1440	3-710-008-02	s HOUSING, STOPPER	1490	3-742-060-01	o HOLDER, RING
1441	3-716-342-02	o GUARD, CONNECTOR	1491	3-742-062-01	o TUBE (2), VF
1442	3-720-946-01	o PIN, MICROPHONE STOPPER	1492	3-742-069-01	o PLATE (C), DISPLAY
1443	3-720-977-01	o PACKING (A), DROP PROTECTION	1493	3-742-074-01	s SCREW (3/6)
1444	3-720-978-01	s PACKING (B), DROP PROTECTION	1494	3-742-075-01	s HOLDER, FILTER
1445	3-722-474-05	o BRACKET, LP	1495	3-165-904-01	s WASHER, SCREW STOPPER
1446	3-722-475-04	o COVER (A)	1496	3-166-307-01	o PLATE, SHIELD
1447	3-722-476-01	o NUT, PLATE		S/N 30035 and higher (J)	
1448	3-722-477-01	o BRACKET, SW		10021 and higher (DC)	
1449	3-722-481-04	o HOLDER, PC BOARD		40023 and higher (EK)	
1450	3-722-485-01	o HOLDER, SLIDE			

VIEWFINDER



BATTERY CASE



BATTERY CASE

BATTERY CASE

No. Part No. SP Description

1501 A-6703-651-P s CASE ASSY. BATTERY
1502 X-3717-701-3 o COVER ASSY. TOP, BATTERY
1503 3-669-536-00 s WASHER (2, 3), STOPPER
1504 3-703-075-00 s CAP 2, SHAFT
1505 3-717-707-02 o CUSHION (2)

1506 3-717-708-01 o RETAINER, CASE
1507 3-717-709-01 o SHAFT, LID
1508 3-718-040-01 o COVER (1), BATTERY CASE
1509 3-718-172-01 o RETAINER, HOOK
1510 3-729-720-01 o CUSHION (LEFT)

1511 3-729-721-01 o CUSHION (RIGHT)
1512 3-717-702-01 s PUSH BUTTON
1513 3-717-703-03 s HOOK

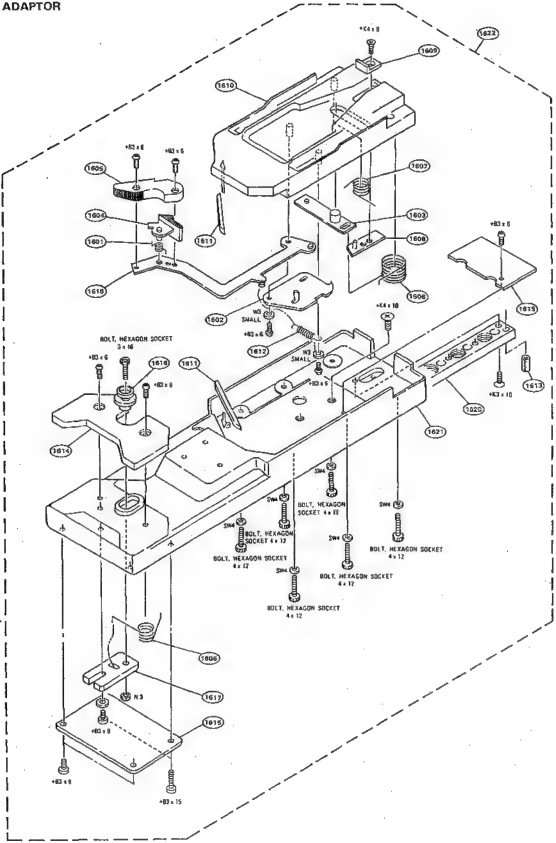
TRIPOD ADAPTOR

TRIPOD ADAPTOR

No.	Part No.	SP Description
1601	2-381-631-01	o SPRING
1602	2-381-632-01	o ARM, LOCKER
1603	2-381-633-01	o SOLENOID
1604	2-381-635-01	o LEVER, LOCK
1605	2-381-636-01	o KNOB
1606	2-381-637-01	o SPRING
1607	2-381-638-01	o SPRING
1608	2-381-640-01	o DOG
1609	2-381-641-01	o COLLAR
1610	2-381-642-01	o MOUNT
1611	2-381-648-01	o INSULATOR, KNOB
1612	2-381-652-01	o SPRING, TENSION
1613	2-381-654-01	o PIN, SPRING
1614	3-678-704-00	o SPACER
1615	3-720-906-01	o LID (S), REAR
1616	3-720-907-01	o PIN (S), REAR
1617	3-720-908-01	o TABLE (S), PIN, REAR
1618	3-720-909-01	o KNOB, CRANK
1619	3-720-910-01	o SHEET, SLIDE
1620	3-720-911-01	o BASE, TRIPOD FITTING SCREW
1621	3-720-912-01	o FRAME (S)
1622	OPTIONAL ACCESSORY: TRIPOD ADAPTOR "VCT-14"	

TRIPOD ADAPTOR

TRIPOD ADAPTOR



SCREWS

SCREWS

+PS Czn-N	
7-626-000-00	
Size	Parts No.
2 x 4	255-20
x 5	253-00
x 6	255-40
x 8	255-50
x 10	283-10
x 12	283-70
2.6 x 4	284-00
x 5	284-10
x 6	284-30
x 8	284-40
x 10	284-60
x 12	259-70
x 14	259-80
x 16	260-00
x 20	260-20

+K Czn-N	
7-682-000-00	
SIZE	Parts No.
3 x 4	245-04
x 5	246-04
x 6	247-04
x 8	248-04
x 10	249-04
x 12	250-04
x 14	251-04
x 16	252-04
x 20	253-04
4 x 6	260-04
x 8	261-04
x 10	262-04
x 12	263-04
x 14	264-04
x 16	265-04
x 20	266-04

+B Bzn-N	
7-621-000-00	
Size	Parts No.
2 x 3	772-08
x 4	772-10
x 5	772-20
x 6	772-30
x 8	772-40
x 10	772-50
x 12	772-60
x 14	772-70
x 16	772-80
x 20	772-90
2.6 x 3	775-08
x 4	775-10
x 5	775-20
x 6	773-85
x 8	775-40
x 10	775-50
x 12	775-60
x 14	775-70
x 16	775-80
x 20	775-90

+B Czn-N	
7-621-000-00	
SIZE	Parts No.
2 x 3	772-08
x 4	772-18
x 5	771-06
x 6	772-38
x 8	772-48
x 10	772-58
x 12	772-88
x 14	772-78
x 16	772-88
x 20	—
2.6 x 3	775-08
x 4	773-86
x 5	770-97
x 6	770-67
x 8	770-99
x 10	773-57
x 12	775-58
x 14	775-78
x 16	775-88
x 20	773-91

+PSW Czn-N	
7-682-000-00	
SIZE	Parts No.
3 x 6	947-01
x 8	948-01
x 10	949-01
x 12	950-01
x 14	951-01
x 16	952-01
x 20	953-01
x 25	954-01
x 30	955-01
x 35	956-01
x 40	957-01
4 x 8	961-01
x 10	962-01
x 12	963-01
x 14	964-01
x 16	965-01
x 20	966-01
x 25	967-01
x 30	968-01
x 35	969-01
x 40	970-01

+P Bzn-N4	
7-645-000-00	
SIZE	Parts No.
2 x 4	102-79
x 5	103-79
x 6	104-79
x 8	105-79
x 10	106-79
x 12	107-79
2.6 x 4	131-79
x 5	132-79
x 6	133-79
x 8	134-79
x 10	135-79
x 12	136-79
x 14	137-79
x 16	138-79
3 x 5	144-79
x 6	645-79
x 8	646-79
x 10	647-79
x 12	648-79
x 14	649-79
x 16	650-79
x 18	—
x 20	651-79
x 25	152-19
x 30	153-19
x 35	154-19
x 40	155-19
4 x 6	198-19
x 8	659-79
x 10	660-79
x 12	661-79
x 14	662-79
x 16	663-79
x 20	664-79
x 25	665-79
x 30	666-79
x 35	167-79


+P Czn-N	
7-621-000-00	
SIZE	Parts No.
2 x 3	255-15
x 4	255-25
x 5	256-35
x 6	255-45
x 8	295-55
x 10	295-65
x 12	296-75
x 14	296-85
x 16	256-95
x 20	256-25
2.3 x 5	257-35
x 6	257-45
x 8	257-55
x 10	257-65
x 12	257-75
x 14	257-85
x 16	258-95
x 20	258-25
2.6 x 3	259-15
x 4	259-25
x 5	259-35
x 6	259-45
x 8	259-55
x 10	259-65
x 12	259-75
x 14	259-85
x 16	260-95
x 20	260-25


+K Bzn-N	
7-682-000-00	
SIZE	Parts No.
3 x 4	245-09
x 5	246-09
x 6	247-09
x 8	248-09
x 10	249-09
x 12	250-09
x 14	251-09
x 16	252-09
x 20	253-09
4 x 6	260-09
x 8	261-09
x 10	262-09
x 12	263-09
x 14	264-09
x 16	265-09
x 20	266-09
5 x 8	274-09
x 10	275-09
x 12	276-09
x 14	277-09
x 16	278-09
x 20	279-09
x 25	280-09
x 30	281-09
x 35	282-09
x 40	283-09
x 45	284-09
x 50	285-09


+B Bzn-N	
7-682-000-00	
SIZE	Parts No.
3 x 3	544-09
x 4	545-09
x 5	546-09
x 6	547-09
x 8	548-09
x 10	549-09
x 12	550-09
x 14	551-09
x 16	552-09
x 18	553-09
x 20	554-09
x 30	555-09
4 x 4	558-09
x 5	559-09
x 6	560-09
x 8	561-09
x 10	562-09
x 12	563-09
x 14	564-09
x 16	565-09
x 18	566-09
x 20	567-09
5 x 8	574-09
x 10	575-09
x 12	576-09
x 14	577-09
x 16	578-09
x 20	579-09


+B Czn-N	
7-682-000-00	
Size	Parts No.
3 x 3	544-04
x 4	545-04
x 5	546-04
x 6	547-04
x 8	548-04
x 10	549-04
x 12	550-04
x 14	551-04
x 16	552-04
x 20	553-04
4 x 4	558-04
x 5	559-04
x 6	560-04
x 8	561-04
x 10	562-04
x 12	563-04
x 14	564-04
x 16	565-04
x 20	566-04
x 25	567-04
x 30	568-04
x 35	569-04
x 40	570-04
x 45	571-04
x 50	572-04
5 x 8	574-04
x 10	575-04
x 12	576-04
x 14	577-04
x 16	578-04
x 20	579-04
x 25	580-04
x 30	581-04


SCREWS


PRECISION +K Cr-N	
	
7-627-000-00	
SIZE	Parts No.
1.7 x 1.8	—
x 2	—
x 2.2	—
x 2.5	—
x 2.8	—
x 3	—
x 3.5	—
x 4	—
x 4.5	—
x 5	—
x 5.5	—
x 6	—
2 x 2	452-07
x 2.2	452-87
x 2.5	—
x 2.8	—
x 3	453-17
x 3.5	—
x 4	452-27
x 4.5	—
x 5	—
x 5.5	—
x 6	—
x 7	452-67
x 8	—
2.6 x 3.5	—
x 4	454-17
x 4.5	—
x 5	454-37
x 5.5	—
x 6	—
x 7	—
x 8	—

PRECISION +K Bzn-N	
	
7-627-000-00	
SIZE	Parts No.
1.7 x 1.8	—
x 2	450-28
x 2.2	—
x 2.5	450-48
x 2.8	—
x 3	450-58
x 3.5	—
x 4	450-78
x 4.5	—
x 5	450-98
x 5.5	—
x 6	—
2 x 2	452-08
x 2.2	452-88
x 2.5	452-48
x 2.8	—
x 3	452-18
x 3.5	452-98
x 4	452-38
x 4.5	—
x 5	452-38
x 5.5	—
x 6	452-58
x 7	452-68
x 8	452-78
2.6 x 3.5	—
x 4	—
x 4.5	454-28
x 5	454-38
x 5.5	—
x 6	—
x 7	—
x 8	—

PRECISION +P Bzn-N	
	
7-627-000-00	
Size	Parts No.
1.7 x 1.8	552-18
x 1.8	—
x 2	552-28
x 2.2	—
x 2.5	552-08
x 2.8	—
x 3	552-38
x 3.5	552-78
x 4	552-48
x 4.5	—
x 5	552-58
x 5.5	—
x 6	552-68
x 8	552-98
2 x 1.8	554-38
x 2	553-18
x 2.2	—
x 2.5	553-28
x 2.8	554-68
x 3	553-38
x 3.5	554-18
x 4	553-48
x 4.5	553-58
x 5	554-28
x 5.5	554-48
x 6	553-68
x 7	553-88
x 8	553-98
x 9	554-48
x 10	553-78
2.6 x 2.8	556-08
x 3	—
x 3.5	556-28
x 4	556-38
x 4.5	556-48
x 5	556-58
x 5.5	—
x 6	556-78
x 7	—
x 8	556-98
x 9	—
x 10	557-48

PRECISION +P Cr-N	
	
7-627-000-00	
Size	Parts No.
1.7 x 1.8	—
x 1.8	—
x 2	552-27
x 2.2	552-87
x 2.5	552-07
x 2.8	—
x 3	552-37
x 3.5	—
x 4	552-47
x 4.5	552-67
x 5	552-57
x 5.5	557-07
x 6	552-77
x 8	552-97
2 x 1.8	554-37
x 2	553-17
x 2.2	554-07
x 2.5	553-27
x 2.8	—
x 3	553-37
x 3.5	554-17
x 4	553-47
x 4.5	553-57
x 5	553-67
x 5.5	—
x 6	554-27
x 8	553-87
x 9	553-77
x 10	553-77
2.6 x 2.8	556-07
x 3	—
x 3.5	—
x 4	556-37
x 4.5	—
x 5	556-57
x 5.5	—
x 6	556-77
x 7	—
x 8	556-97
x 9	—
x 10	557-47

BOLT, HEXAGON SOCKET SNCMB B2n-N4	
	
7-683-000-00	
SIZE	Parts No.
3 x 4	401-04
3 x 5	402-04
3 x 6	403-04
3 x 8	404-04
3 x 10	405-04
3 x 12	406-04
3 x 14	407-04
3 x 16	408-04
3 x 20	410-04
4 x 5	417-04
4 x 6	418-04
4 x 8	419-04
4 x 10	420-04
4 x 12	421-04
4 x 14	422-04
4 x 16	423-04
4 x 20	425-04
4 x 25	427-04
5 x 8	434-04
5 x 10	435-04
5 x 12	436-04
5 x 14	437-04
5 x 16	438-04
5 x 20	440-04
5 x 25	442-04
5 x 30	444-04
5 x 50	447-04
6 x 10	452-04
6 x 12	453-04
6 x 14	454-04
6 x 16	455-04
6 x 20	457-04
6 x 25	459-04
6 x 30	461-04
6 x 35	463-04
6 x 40	465-04
6 x 45	466-04
6 x 55	468-04
8 x 12	470-04
8 x 14	471-04
8 x 16	472-04
8 x 20	473-04
8 x 25	474-04
8 x 30	475-04
8 x 35	476-04
8 x 40	477-04
8 x 45	478-04
8 x 50	479-04

HEXAGON SET SCREW (FLAT) SNCMB-PD	
	
7-621-000-00	
SIZE	Parts No.
2 x 2.5	731-08
2 x 3	732-08
2 x 4	733-08
2 x 5	—
2 x 6	—
2.6 x 3	737-08
2.6 x 4	738-08
2.6 x 5	739-08
2.6 x 6	740-08

BVW-400 (J/UC)
BVW-400P (EK)

13-3. ELECTRICAL PARTS LIST

CAPACITOR, CHIP CERAMIC

Part No. SP Description

1-163-083-00 s CAP, CHIP CERAMIC 1pF $\pm 0.25pF$ 50V
 1-163-085-00 s CAP, CHIP CERAMIC 2pF $\pm 0.25pF$ 50V
 1-163-087-00 s CAP, CHIP CERAMIC 4pF $\pm 0.25pF$ 50V
 1-163-089-00 s CAP, CHIP CERAMIC 6pF $\pm 0.5pF$ 50V
 1-163-091-00 s CAP, CHIP CERAMIC 8pF $\pm 0.5pF$ 50V

1-163-093-00 s CAP, CHIP CERAMIC 10pF 5% 50V
 1-163-097-00 s CAP, CHIP CERAMIC 15pF 5% 50V
 1-163-101-00 s CAP, CHIP CERAMIC 22pF 5% 50V
 1-163-105-00 s CAP, CHIP CERAMIC 33pF 5% 50V
 1-163-109-00 s CAP, CHIP CERAMIC 47pF 5% 50V

1-163-113-00 s CAP, CHIP CERAMIC 68pF 5% 50V
 1-163-117-00 s CAP, CHIP CERAMIC 100pF 5% 50V
 1-163-121-00 s CAP, CHIP CERAMIC 150pF 5% 50V
 1-163-125-00 s CAP, CHIP CERAMIC 220pF 5% 50V
 1-163-129-00 s CAP, CHIP CERAMIC 330pF 5% 50V

1-163-133-00 s CAP, CHIP CERAMIC 470pF 5% 50V
 1-163-137-00 s CAP, CHIP CERAMIC 680pF 5% 50V
 1-163-141-00 s CAP, CHIP CERAMIC 1000pF 5% 50V
 1-163-145-00 s CAP, CHIP CERAMIC 1500pF 10% 50V
 1-164-161-11 s CAP, CHIP CERAMIC 2200pF 10% 100V

1-164-182-11 s CAP, CHIP CERAMIC 3300pF 10% 100V
 1-163-017-00 s CAP, CHIP CERAMIC 4700pF 10% 50V
 1-163-019-00 s CAP, CHIP CERAMIC 6800pF 10% 50V
 1-164-232-11 s CAP, CHIP CERAMIC 0.01 20% 100V
 1-163-023-00 s CAP, CHIP CERAMIC 0.015 10% 50V

1-163-034-00 s CAP, CHIP CERAMIC 0.033 50V
 1-163-035-00 s CAP, CHIP CERAMIC 0.047 50V
 1-163-036-00 s CAP, CHIP CERAMIC 0.068 50V
 1-163-038-00 s CAP, CHIP CERAMIC 0.1 50V

CAPACITOR, CHIP TANTALUM

Part No. SP Description

1-135-070-00 s CAP, CHIP TANTALUM 0.1 10% 35V
 1-135-071-21 s CAP, CHIP TANTALUM 0.15 10% 35V
 1-135-072-21 s CAP, CHIP TANTALUM 0.22 10% 35V
 1-135-073-00 s CAP, CHIP TANTALUM 0.33 10% 35V
 1-135-145-11 s CAP, CHIP TANTALUM 0.47 20% 35V

1-135-074-21 s CAP, CHIP TANTALUM 0.47 10% 35V
 1-135-087-21 s CAP, CHIP TANTALUM 0.68 10% 20V
 1-135-075-21 s CAP, CHIP TANTALUM 0.68 10% 35V
 1-135-091-00 s CAP, CHIP TANTALUM 1.0 10% 16V
 1-135-076-21 s CAP, CHIP TANTALUM 1.0 10% 35V

1-135-152-21 s CAP, CHIP TANTALUM 1.5 10% 35V
 1-135-077-21 s CAP, CHIP TANTALUM 1.5 10% 35V
 1-135-153-21 s CAP, CHIP TANTALUM 2.2 10% 25V
 1-135-078-21 s CAP, CHIP TANTALUM 2.2 10% 35V
 1-135-092-21 s CAP, CHIP TANTALUM 3.3 10% 16V

1-135-079-21 s CAP, CHIP TANTALUM 3.3 10% 35V
 1-135-155-21 s CAP, CHIP TANTALUM 4.7 10% 16V
 1-135-085-21 s CAP, CHIP TANTALUM 4.7 10% 25V
 1-135-156-21 s CAP, CHIP TANTALUM 6.8 10% 10V
 1-135-089-21 s CAP, CHIP TANTALUM 6.8 10% 20V

1-135-159-21 s CAP, CHIP TANTALUM 10 10% 20V
 1-135-097-21 s CAP, CHIP TANTALUM 15 10% 10V
 1-135-161-21 s CAP, CHIP TANTALUM 22 10% 10V
 1-135-166-21 s CAP, CHIP TANTALUM 47 10% 10V

RESISTOR, CHIP

Part No. SP Description

1-216-295-00 s RES, CHIP 0 5K 1/10W
 1-216-298-00 s RES, CHIP 2.2 5K 1/10W
 1-216-302-00 s RES, CHIP 2.7 5K 1/10W
 1-216-304-11 s RES, CHIP 3.3 5K 1/10W
 1-216-306-11 s RES, CHIP 3.9 5K 1/10W

1-216-308-00 s RES, CHIP 4.7 5K 1/10W
 1-216-309-00 s RES, CHIP 5.6 5K 1/10W
 1-216-311-00 s RES, CHIP 6.8 5K 1/10W
 1-216-313-00 s RES, CHIP 8.2 5K 1/10W
 1-216-001-00 s RES, CHIP 10 5K 1/10W

1-216-003-11 s RES, CHIP 12 5K 1/10W
 1-216-005-00 s RES, CHIP 15 5K 1/10W
 1-216-007-00 s RES, CHIP 18 5K 1/10W
 1-216-009-00 s RES, CHIP 22 5K 1/10W
 1-216-011-00 s RES, CHIP 27 5K 1/10W

1-216-013-00 s RES, CHIP 33 5K 1/10W
 1-216-015-00 s RES, CHIP 39 5K 1/10W
 1-216-017-00 s RES, CHIP 47 5K 1/10W
 1-216-019-00 s RES, CHIP 56 5K 1/10W
 1-216-021-00 s RES, CHIP 68 5K 1/10W

1-216-023-00 s RES, CHIP 82 5K 1/10W
 1-216-025-00 s RES, CHIP 100 5K 1/10W
 1-216-027-00 s RES, CHIP 120 5K 1/10W
 1-216-029-00 s RES, CHIP 150 5K 1/10W
 1-216-031-00 s RES, CHIP 180 5K 1/10W

1-216-033-00 s RES, CHIP 220 5K 1/10W
 1-216-035-00 s RES, CHIP 270 5K 1/10W
 1-216-037-00 s RES, CHIP 330 5K 1/10W
 1-216-039-00 s RES, CHIP 390 5K 1/10W
 1-216-041-00 s RES, CHIP 470 5K 1/10W

1-216-043-00 s RES, CHIP 560 5K 1/10W
 1-216-045-00 s RES, CHIP 680 5K 1/10W
 1-216-047-00 s RES, CHIP 820 5K 1/10W
 1-216-049-00 s RES, CHIP 1k 5K 1/10W
 1-216-051-00 s RES, CHIP 1.2k 5K 1/10W

1-216-053-00 s RES, CHIP 1.5k 5K 1/10W
 1-216-055-00 s RES, CHIP 1.8k 5K 1/10W
 1-216-057-00 s RES, CHIP 2.2k 5K 1/10W
 1-216-059-00 s RES, CHIP 2.7k 5K 1/10W
 1-216-061-00 s RES, CHIP 3.3k 5K 1/10W

1-216-063-00 s RES, CHIP 3.9k 5K 1/10W
 1-216-065-00 s RES, CHIP 4.7k 5K 1/10W
 1-216-067-00 s RES, CHIP 5.6k 5K 1/10W
 1-216-069-00 s RES, CHIP 6.8k 5K 1/10W
 1-216-071-00 s RES, CHIP 8.2k 5K 1/10W

1-216-073-00 s RES, CHIP 10k 5K 1/10W
 1-216-075-00 s RES, CHIP 12k 5K 1/10W
 1-216-077-00 s RES, CHIP 15k 5K 1/10W
 1-216-079-00 s RES, CHIP 18k 5K 1/10W
 1-216-081-00 s RES, CHIP 22k 5K 1/10W

1-216-083-00 s RES, CHIP 27k 5K 1/10W
 1-216-085-00 s RES, CHIP 33k 5K 1/10W
 1-216-748-11 s RES, CHIP 39k 5K 1/10W
 1-216-089-00 s RES, CHIP 47k 5K 1/10W
 1-216-091-00 s RES, CHIP 56k 5K 1/10W

RESISTOR, CHIP

Part No. SP Description

1-216-093-00 s RES, CHIP 68k 5K 1/10W
 1-216-095-00 s RES, CHIP 82k 5K 1/10W
 1-216-097-00 s RES, CHIP 100k 5K 1/10W
 1-216-099-00 s RES, CHIP 120k 5K 1/10W
 1-216-101-00 s RES, CHIP 150k 5K 1/10W

1-216-103-00 s RES, CHIP 180k 5K 1/10W
 1-216-105-00 s RES, CHIP 220k 5K 1/10W
 1-216-107-00 s RES, CHIP 270k 5K 1/10W
 1-216-109-00 s RES, CHIP 330k 5K 1/10W
 1-216-111-00 s RES, CHIP 390k 5K 1/10W

1-216-113-00 s RES, CHIP 470k 5K 1/10W
 1-216-115-00 s RES, CHIP 560k 5K 1/10W
 1-216-117-00 s RES, CHIP 680k 5K 1/10W
 1-216-119-00 s RES, CHIP 820k 5K 1/10W
 1-216-121-00 s RES, CHIP 1.0M 5K 1/10W

1-216-123-11 s RES, CHIP 1.2M 5K 1/10W
 1-216-125-00 s RES, CHIP 1.5M 5K 1/10W
 1-216-127-11 s RES, CHIP 1.8M 5K 1/10W
 1-216-129-00 s RES, CHIP 2.2M 5K 1/10W
 1-216-131-11 s RES, CHIP 2.7M 5K 1/10W

1-216-133-00 s RES, CHIP 3.3M 5K 1/10W

AFM-6P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-350-A	o MOUNTED CIRCUIT BOARD, AFM-6P
1pc	3-724-705-01	o PLATE (AFM-6), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	o SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-126-391-11	s ELECT 47uF 20% 6.3V
C2	1-126-391-11	s ELECT 47uF 20% 6.3V
C3	1-126-392-11	s ELECT 100uF 20% 6.3V
C7	1-126-390-11	s ELECT 22uF 20% 6.3V
C8	1-126-390-11	s ELECT 22uF 20% 6.3V
C101	1-164-005-11	s CERAMIC 0.47uF 25V
C105	1-164-005-11	s CERAMIC 0.47uF 25V
C108	1-164-005-11	s CERAMIC 0.47uF 25V
C115	1-126-392-11	s ELECT 100uF 20% 6.3V
C117	1-126-391-11	s ELECT 47uF 20% 6.3V
C120	1-164-005-11	s CERAMIC 0.47uF 25V
C201	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C401	1-126-394-11	s ELECT 10uF 20% 16V
C402	1-126-390-11	s ELECT 22uF 20% 6.3V
C403	1-126-390-11	s ELECT 22uF 20% 6.3V
C405	1-126-390-11	s ELECT 22uF 20% 6.3V
C501	1-126-394-11	s ELECT 10uF 20% 16V
C502	1-126-394-11	s ELECT 10uF 20% 16V
C503	1-126-394-11	s ELECT 10uF 20% 16V
C504	1-126-394-11	s ELECT 10uF 20% 16V
C529	1-126-390-11	s ELECT 22uF 20% 6.3V
C530	1-126-390-11	s ELECT 22uF 20% 6.3V
C543	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C544	1-135-136-21	s TANTALUM CHIP 6.8uF 10% 35V
C545	1-164-148-11	s CERAMIC CHIP 0.0082uF 10% 50V
C546	1-126-392-11	s ELECT 100uF 20% 6.3V
C547	1-163-088-00	s CERAMIC CHIP 5PP 0.25PF 50V
C548	1-164-147-11	s CERAMIC CHIP 0.0047uF 10% 50V
C549	1-136-160-00	s MYLAR 0.039uF 10% 50V
C552	1-126-390-11	s ELECT 22uF 20% 6.3V
C553	1-126-390-11	s ELECT 22uF 20% 6.3V
C554	1-126-390-11	s ELECT 22uF 20% 6.3V
C558	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C559	1-135-136-21	s TANTALUM CHIP 6.8uF 10% 35V
C560	1-164-148-11	s CERAMIC CHIP 0.0082uF 10% 50V
C561	1-163-088-00	s CERAMIC CHIP 5PP 0.25PF 50V
C562	1-164-147-11	s CERAMIC CHIP 0.0047uF 10% 50V
C565	1-136-160-00	s MYLAR 0.039uF 10% 50V
C567	1-126-390-11	s ELECT 22uF 20% 6.3V
C568	1-126-390-11	s ELECT 22uF 20% 6.3V
CW1	1-566-960-11	o CONNECTOR, 5P, MALE
CW2	1-566-388-11	o CONNECTOR, 2P, MALE
CWJ2	1-565-413-11	o PLUG, SHORTING
CV1	1-141-370-11	s CAP. CHIP TRIMMER 50PP
CV2	1-141-370-11	s CAP. CHIP TRIMMER 50PP
CV3	1-141-370-11	s CAP. CHIP TRIMMER 50PP
CV4	1-141-370-11	s CAP. CHIP TRIMMER 50PP
CV101	1-141-370-11	s CAP. CHIP TRIMMER 50PP

(AFM-6P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CV102	1-141-370-11	s CAP. CHIP TRIMMER 50PP
CV103	1-141-370-11	s CAP. CHIP TRIMMER 50PP
CV104	1-141-370-11	s CAP. CHIP TRIMMER 50PP
D201	8-719-800-76	s DIODE 1SS226
0402	8-719-800-76	s DIODE 1SS226
D501	8-719-800-76	s DIODE 1SS226
0502	8-719-800-76	s DIODE 1SS226
0503	8-719-800-76	s DIODE 1SS226
0504	8-719-800-76	s DIODE 1SS226
0505	8-719-104-31	s DIODE 1S2838
0506	8-719-104-34	s DIODE 1S2836
FL1	1-236-019-11	s FILTER, LOW PASS (CHIP)
IC1	8-741-152-44	s IC SBX1524-52
IC2	8-759-209-15	s IC TC4S069F
IC3	8-759-209-15	s IC TC4S069F
IC4	8-759-209-15	s IC TC4S069F
IC401	8-759-100-94	s IC UPC35862
IC501	1-236-003-11	s FILTER, LOW PASS
IC502	8-752-009-90	s IC CX20099
IC503	8-759-403-92	s IC AN6391NS
IC504	8-759-403-92	s IC AN6391NS
IC505	8-759-209-15	s IC TC4S069F
IC506	8-759-700-38	s IC NJM4559M
IC507	8-759-700-38	s IC NJM4559M
IC601	8-759-100-96	s IC UPC455862
L1	1-410-393-11	s INDUCTOR CHIP 100uH
L2	1-410-393-11	s INDUCTOR CHIP 100uH
L3	1-410-658-31	s INDUCTOR CHIP 220uH
L4	1-410-381-11	s INDUCTOR CHIP 10uH
L5	1-410-389-31	s INDUCTOR CHIP 47uH
L6	1-408-779-31	s INDUCTOR CHIP 15uH
L101	1-410-393-11	s INDUCTOR CHIP 100uH
L102	1-410-393-11	s INDUCTOR CHIP 100uH
Q1	8-729-905-12	s TRANSISTOR DTA144EU
Q2	8-729-905-18	s TRANSISTOR UTC144EU
Q3	8-729-905-18	s TRANSISTOR DTA144EU
Q4	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q5	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q6	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q7	8-729-117-72	s TRANSISTOR 2SC4178
Q8	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q9	8-729-117-72	s TRANSISTOR 2SC4178
Q101	8-729-117-72	s TRANSISTOR 2SC4178
Q102	8-729-905-12	s TRANSISTOR DTA144EU
Q103	8-729-117-72	s TRANSISTOR 2SC4178
Q104	8-729-117-72	s TRANSISTOR 2SC4178
Q105	8-729-117-72	s TRANSISTOR 2SC4178
Q106	8-729-117-72	s TRANSISTOR 2SC4178
Q107	8-729-117-72	s TRANSISTOR 2SC4178
Q108	8-729-117-72	s TRANSISTOR 2SC4178
Q109	8-729-109-44	s TRANSISTOR 2SK94
Q110	8-729-109-44	s TRANSISTOR 2SK94
Q111	8-729-109-44	s TRANSISTOR 2SK94

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AFM-GP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q112	8-729-109-44	s TRANSISTOR 2SK94
Q113	8-729-117-72	s TRANSISTOR 2SC4178
Q115	8-729-905-12	s TRANSISTOR 2TA144EU
Q121	8-729-109-44	s TRANSISTOR 2SK94
Q122	8-729-109-44	s TRANSISTOR 2SK94
Q123	8-729-109-44	s TRANSISTOR 2SK94
Q124	8-729-109-44	s TRANSISTOR 2SK94
Q155	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q156	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q157	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q158	8-729-109-44	s TRANSISTOR 2SK94
Q159	8-729-109-44	s TRANSISTOR 2SK94
Q160	8-729-109-44	s TRANSISTOR 2SK94
Q161	8-729-109-44	s TRANSISTOR 2SK94
Q170	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q201	8-729-106-68	s TRANSISTOR 2SD1615A-GP
Q202	8-729-106-68	s TRANSISTOR 2SD1615A-GP
Q401	8-729-807-50	s TRANSISTOR 2SD1623
Q402	8-729-905-18	s TRANSISTOR 2TC144EU
Q501	8-729-209-07	s TRANSISTOR 2SC4213B
Q502	8-729-209-07	s TRANSISTOR 2SC4213B
Q503	8-729-209-07	s TRANSISTOR 2SC4213B
R1	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R2	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R3	1-216-832-11	s METAL CHIP 8.2K 5% 1/16W
R4	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R5	1-216-828-11	s METAL CHIP 3.9K 5% 1/16W
R6	1-216-835-11	s METAL CHIP 15K 5% 1/16W
R7	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R8	1-216-680-11	s METAL CHIP 16K 0.50% 1/10W
R10	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R11	1-216-828-11	s METAL CHIP 3.9K 5% 1/16W
R12	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R13	1-216-835-11	s METAL CHIP 15K 5% 1/16W
R14	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R15	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R16	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R17	1-216-826-11	s METAL CHIP 2.7K 5% 1/16W
R18	1-216-824-11	s METAL CHIP 1.8K 5% 1/16W
R19	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R20	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R21	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R22	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R23	1-216-838-11	s METAL CHIP 27K 5% 1/16W
R24	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R25	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R26	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R27	1-216-839-11	s METAL CHIP 33K 5% 1/16W
R28	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R29	1-216-840-11	s METAL CHIP 39K 5% 1/16W
R32	1-216-817-11	s METAL CHIP 470 5% 1/16W
R33	1-216-818-11	s METAL CHIP 560 5% 1/16W

(AFM-GP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R101	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R102	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R103	1-216-826-11	s METAL CHIP 300 5% 1/16W
R104	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R105	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R106	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R107	1-216-809-11	s METAL CHIP 100 5% 1/16W
R108	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R109	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R110	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R111	1-216-805-11	s METAL CHIP 47 5% 1/16W
R112	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R113	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R114	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R116	1-216-817-11	s METAL CHIP 470 5% 1/16W
R117	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R118	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R119	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R120	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R121	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R122	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R123	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R124	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R126	1-216-817-11	s METAL CHIP 470 5% 1/16W
R127	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R128	1-216-817-11	s METAL CHIP 470 5% 1/16W
R129	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R130	1-216-817-11	s METAL CHIP 470 5% 1/16W
R131	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R132	1-216-817-11	s METAL CHIP 470 5% 1/16W
R133	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R134	1-216-817-11	s METAL CHIP 470 5% 1/16W
R135	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R136	1-216-840-11	s METAL CHIP 39K 5% 1/16W
R139	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R140	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R141	1-216-814-11	s METAL CHIP 270 5% 1/16W
R142	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R143	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R144	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R145	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R146	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R147	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R148	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R149	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R150	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R151	1-216-797-11	s METAL CHIP 10 5% 1/16W
R152	1-216-826-11	s METAL CHIP 2.7K 5% 1/16W
R153	1-216-826-11	s METAL CHIP 2.7K 5% 1/16W
R154	1-216-797-11	s METAL CHIP 10 5% 1/16W
R155	1-216-789-11	s METAL CHIP 2.2 5% 1/16W
R156	1-216-789-11	s METAL CHIP 2.2 5% 1/16W
R157	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R158	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R159	1-216-789-11	s METAL CHIP 2.2 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AFM-GP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R160	1-216-789-11	s METAL CHIP 2.2 5% 1/16W
R161	1-216-864-11	s METAL CHIP 0-00W
R162	1-216-864-11	s METAL CHIP 0-00W
R163	1-216-815-11	s METAL CHIP 330 5% 1/16W
R164	1-216-809-11	s METAL CHIP 100 5% 1/16W
R165	1-216-809-11	s METAL CHIP 100 5% 1/16W
R201	1-216-817-11	s METAL CHIP 470 5% 1/16W
R202	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R203	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R205	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R206	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R401	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R402	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R403	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R404	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R405	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R406	1-216-817-11	s METAL CHIP 470 5% 1/16W
R503	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R504	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R505	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R506	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R507	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R508	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R509	1-218-302-11	s METAL CHIP 8.2K 1% 1/16W
R510	1-218-301-11	s METAL CHIP 3.9K 1% 1/16W
R511	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R512	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R517	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R518	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R541	1-218-300-11	s METAL CHIP 3.3K 1% 1/16W
R542	1-218-299-11	s METAL CHIP 2.7K 1% 1/16W
R543	1-218-300-11	s METAL CHIP 3.3K 1% 1/16W
R544	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R546	1-218-301-11	s METAL CHIP 3.9K 1% 1/16W
R547	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R548	1-218-297-11	s METAL CHIP 680 1% 1/16W
R549	1-218-298-11	s METAL CHIP 2.2K 1% 1/16W
R550	1-218-299-11	s METAL CHIP 2.7K 1% 1/16W
R551	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R552	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R553	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R554	1-218-299-11	s METAL CHIP 2.7K 1% 1/16W
R555	1-218-300-11	s METAL CHIP 3.3K 1% 1/16W
R556	1-218-300-11	s METAL CHIP 3.3K 1% 1/16W
R557	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R558	1-218-301-11	s METAL CHIP 3.9K 1% 1/16W
R560	1-218-298-11	s METAL CHIP 2.2K 1% 1/16W
R561	1-218-297-11	s METAL CHIP 680 1% 1/16W
R562	1-218-299-11	s METAL CHIP 2.7K 1% 1/16W
R563	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R564	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R565	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R572	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R573	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R574	1-216-848-11	s METAL CHIP 180K 5% 1/16W

(AFM-GP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R575	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R576	1-218-832-11	s METAL CHIP 8.2K 5% 1/16W
R577	1-218-832-11	s METAL CHIP 8.2K 5% 1/16W
R578	1-218-318-11	s METAL CHIP 5.6K 1% 1/16W
R579	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R580	1-218-298-11	s METAL CHIP 2.2K 1% 1/16W
R581	1-218-322-11	s METAL CHIP 47K 1% 1/16W
R582	1-218-322-11	s METAL CHIP 47K 1% 1/16W
R583	1-218-315-11	s METAL CHIP 1K 1% 1/16W
R584	1-218-303-11	s METAL CHIP 10K 1% 1/16W
R585	1-218-318-11	s METAL CHIP 5.6K 1% 1/16W
R586	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R587	1-218-298-11	s METAL CHIP 2.2K 1% 1/16W
R588	1-218-841-11	s METAL CHIP 47K 5% 1/16W
R589	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R590	1-218-315-11	s METAL CHIP 1K 1% 1/16W
R591	1-218-303-11	s METAL CHIP 10K 1% 1/16W
R601	1-216-664-11	s METAL CHIP 3.6K 0.50% 1/10W
R602	1-216-664-11	s METAL CHIP 3.6K 0.50% 1/10W
R603	1-216-664-11	s METAL CHIP 3.6K 0.50% 1/10W
R604	1-216-664-11	s METAL CHIP 3.6K 0.50% 1/10W
R605	1-216-657-11	s METAL CHIP 1.8K 0.50% 1/10W
R606	1-216-657-11	s METAL CHIP 1.8K 0.50% 1/10W
R607	1-216-657-11	s METAL CHIP 1.8K 0.50% 1/10W
R608	1-216-657-11	s METAL CHIP 1.8K 0.50% 1/10W
RV1	1-230-868-11	s RES. ADJ. METAL 2.2K
RV2	1-230-869-11	s RES. ADJ. METAL 4.7K
RV3	1-230-868-11	s RES. ADJ. METAL 2.2K
RV4	1-230-874-11	s RES. ADJ. METAL 100K
RV5	1-230-869-11	s RES. ADJ. METAL 4.7K
RV6	1-237-034-11	s RES. ADJ. METAL 2K
RV7	1-237-036-11	s RES. ADJ. METAL 10K
RV8	1-230-871-11	s RES. ADJ. METAL 22K
RV10	1-237-032-11	s RES. ADJ. METAL 500
RV101	1-230-869-11	s RES. ADJ. METAL 4.7K
RV102	1-230-869-11	s RES. ADJ. METAL 4.7K
RV103	1-230-869-11	s RES. ADJ. METAL 4.7K
RV104	1-230-869-11	s RES. ADJ. METAL 4.7K
RV107	1-230-866-11	s RES. ADJ. METAL 470
RV501	1-230-869-11	s RES. ADJ. METAL 4.7K
RV502	1-230-869-11	s RES. ADJ. METAL 4.7K
RV503	1-237-034-11	s RES. ADJ. METAL 2K
RV504	1-237-034-11	s RES. ADJ. METAL 2K
RV505	1-230-869-11	s RES. ADJ. METAL 4.7K
TH501	1-808-565-21	s THERMISTOR
TH502	1-808-565-21	s THERMISTOR

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

AT-49A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7513-944-A	o MOUNTED CIRCUIT BOARD, AT-49A
8pcs	3-621-124-00	o SPACER
1pc	3-724-713-01	o PLATE (AT-49), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C16	1-162-637-11	s CERAMIC CHIP 0.47 16V
C21	1-127-558-11	s ELECTSOLID 20 10V
C24	1-127-558-11	s ELECTSOLID 20 10V
C40	1-162-638-11	s CERAMIC CHIP 1 16V
C41	1-162-638-11	s CERAMIC CHIP 1 16V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
D1	8-719-104-34	s DIODE 1S2836
D2	8-719-104-34	s DIODE 1S2836
D3	8-719-800-76	s DIODE 1S5226
D4	8-719-104-34	s DIODE 1S2836
IC1	1-807-412-12	s IC 8H-1219A
IC2	1-807-413-11	s IC 8H-1220
IC3	1-807-414-11	s IC 8H-1221
IC4	8-759-200-79	s IC TC4049BF
IC5	8-759-906-54	s IC TL064CNS
IC6	8-759-009-05	s IC MC14051BP
IC7	8-759-101-12	s IC UPC3162
IC8	8-759-918-65	s IC TL7700CPS
IC9	8-759-204-79	s IC TC4082A1F
IC10	8-759-100-94	s IC UPC35862
IC11	8-759-400-89	s IC MN1237AD
IC12	8-741-100-58	s IC 8X-1179A
IC13	8-759-906-53	s IC TL062CPS
IC14	8-759-321-94	s IC 806305V067P
IC16	8-759-906-53	s IC TL062CPS
IC17	8-752-330-59	s IC CKX1011P
Q1	8-729-216-22	s TRANSISTOR 2SA1162
Q2	8-729-109-44	s TRANSISTOR 2SK94
Q3	8-729-100-66	s TRANSISTOR 2SC1623
Q4	8-729-100-66	s TRANSISTOR 2SC1623
Q6	8-729-216-22	s TRANSISTOR 2SA1162
Q7	8-729-216-22	s TRANSISTOR 2SA1162
R52	1-216-689-11	s METAL CHIP 39K 0.50% 1/10W
R72	1-216-657-11	s METAL CHIP 1.8K 0.50% 1/10W
R73	1-216-681-11	s METAL CHIP 18K 0.50% 1/10W
R94	1-216-090-00	s METAL CHIP 51K 5% 1/10W
RB1	1-235-813-11	s NETWORK
RB2	1-235-813-11	s NETWORK
RB3	1-231-387-00	s NETTV, RES
RV1	1-237-034-11	s RES, ADJ, METAL 2K
RV2	1-228-474-00	s RES, ADJ, METAL 10K
RV4	1-237-035-11	s RES, ADJ, METAL 5K
S1	1-570-598-11	s SWITCH, DIP
S2	1-570-857-11	s SWITCH, SLIDG
X1	1-567-192-11	s CERAMIC 4.00MHz

AU-97P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-351-A	o MOUNTED CIRCUIT BOARD, AU-97P
1pc	3-724-704-01	o PLATE (AU-97), ORNAMENTAL
1pc	3-724-753-01	o RING
1pc	3-729-031-01	o CASE (AU-1), SHIELD
1pc	3-729-032-03	o CASE (AU-2), SHIELD
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-126-394-11	s ELECT 10uF 20% 16V
C3	1-126-101-11	s ELECT 100uF 20% 10V
C5	1-126-394-11	s ELECT 10uF 20% 16V
C6	1-126-394-11	s ELECT 10uF 20% 16V
C7	1-126-394-11	s ELECT 10uF 20% 16V
C8	1-126-394-11	s ELECT 10uF 20% 16V
C9	1-126-394-11	s ELECT 10uF 20% 16V
C10	1-126-394-11	s ELECT 10uF 20% 16V
C14	1-124-478-11	s ELECT 100uF 20% 25V
C16	1-127-485-00	s ELECTSOLID 20 16V
C18	1-126-394-11	s ELECT 10uF 20% 16V
C34	1-109-631-00	s MICA 330PF 5% 500V
C102	1-126-394-11	s ELECT 10uF 20% 16V
C104	1-126-394-11	s ELECT 10uF 20% 16V
C105	1-126-394-11	s ELECT 10uF 20% 16V
C106	1-126-394-11	s ELECT 10uF 20% 16V
C113	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C114	1-126-394-11	s ELECT 10uF 20% 16V
C122	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C123	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C124	1-126-394-11	s ELECT 10uF 20% 16V
C131	1-163-018-00	s CERAMIC CHIP 0.0056uF 5% 50V
C134	1-126-394-11	s ELECT 10uF 20% 16V
C138	1-109-631-00	s MICA 330PF 5% 500V
C202	1-126-394-11	s ELECT 10uF 20% 16V
C204	1-126-394-11	s ELECT 10uF 20% 16V
C213	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C214	1-126-394-11	s ELECT 10uF 20% 16V
C222	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C223	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C224	1-126-394-11	s ELECT 10uF 20% 16V
C231	1-163-018-00	s CERAMIC CHIP 0.0056uF 5% 50V
C234	1-126-394-11	s ELECT 10uF 20% 16V
C238	1-109-631-00	s MICA 330PF 5% 500V
C304	1-126-394-11	s ELECT 10uF 20% 16V
C306	1-126-394-11	s ELECT 10uF 20% 16V
C308	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C309	1-126-394-11	s ELECT 10uF 20% 16V
C404	1-126-394-11	s ELECT 10uF 20% 16V
C406	1-126-394-11	s ELECT 10uF 20% 16V
C408	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C409	1-126-394-11	s ELECT 10uF 20% 16V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CT1	1-459-865-11	s COIL, VAR

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AU-97P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CV131	1-141-393-11	s TRIMMER 100PF
CV231	1-141-393-11	s TRIMMER 100PF
D1	8-719-941-86	s DIODE DAN202U
D101	8-719-941-23	s DIODE DA204U
D201	8-719-941-23	s DIODE DA204U
IC1	8-757-991-00	s IC CX7991
IC2	8-759-630-27	s IC MS236ML
IC102	8-741-148-90	s IC SB1489-01
IC111	8-759-702-06	s IC NJM064N
IC112	8-759-009-07	s IC MC14053BF
IC131	8-759-702-02	s IC NJM062N
IC211	8-759-702-06	s IC NJM064N
IC301	8-759-981-58	s IC RC2043MD
IC302	8-759-009-07	s IC MC14053BF
IC401	8-759-981-58	s IC RC2043MD
L1	1-408-429-00	s INDUCTOR 470uH
L3	1-412-279-41	s INDUCTOR 270uH
L4	1-412-279-41	s INDUCTOR 270uH
L5	1-412-279-41	s INDUCTOR 270uH
L6	1-408-421-00	s INDUCTOR 100uH
LV111	1-410-854-12	s COIL, VAR
LV121	1-410-854-12	s COIL, VAR
LV131	1-410-853-12	s COIL, VAR
LV211	1-410-854-12	s COIL, VAR
LV221	1-410-854-12	s COIL, VAR
LV231	1-410-853-12	s COIL, VAR
Q1	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-905-18	s TRANSISTOR DTC144EU
Q4	8-729-905-12	s TRANSISTOR DTA144EU
Q8	8-729-905-12	s TRANSISTOR DTA144EU
Q9	8-729-159-64	s TRANSISTOR 2SD596
Q10	8-729-159-64	s TRANSISTOR 2SD596
Q11	8-729-905-12	s TRANSISTOR DTA144EU
Q12	8-729-159-64	s TRANSISTOR 2SD596
Q13	8-729-159-64	s TRANSISTOR 2SD596
Q14	8-729-209-07	s TRANSISTOR 2SC4213B
Q15	8-729-209-07	s TRANSISTOR 2SC4213B
Q16	8-729-901-46	s TRANSISTOR DTA114VK
Q17	8-729-905-18	s TRANSISTOR DTC144EU
Q18	8-729-101-07	s TRANSISTOR 2SB798-DL
Q131	8-729-209-07	s TRANSISTOR 2SC4213B
Q132	8-729-209-07	s TRANSISTOR 2SC4213B
Q231	8-729-209-07	s TRANSISTOR 2SC4213B
Q232	8-729-209-07	s TRANSISTOR 2SC4213B
Q301	8-729-209-07	s TRANSISTOR 2SC4213B
Q302	8-729-209-07	s TRANSISTOR 2SC4213B
Q303	8-729-220-93	s TRANSISTOR 2SK209G
Q304	8-729-905-18	s TRANSISTOR DTC144EU
Q401	8-729-209-07	s TRANSISTOR 2SC4213B
Q402	8-729-209-07	s TRANSISTOR 2SC4213B

(AU-97P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q403	8-729-220-93	s TRANSISTOR 2SK209G
Q404	8-729-905-18	s TRANSISTOR DTC144EU
Q405	8-729-905-18	s TRANSISTOR DTC144EU
R1	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R2	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R3	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R4	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R5	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R6	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R7	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R8	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R12	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R13	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R16	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R17	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R18	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R22	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R23	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R25	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R26	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R30	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R31	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R32	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R33	1-216-813-11	s METAL CHIP 220 5% 1/16W
R34	1-216-685-11	s METAL CHIP 27K 0.50K 1/10W
R35	1-216-664-11	s METAL CHIP 3.6K 0.50K 1/10W
R36	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R37	1-216-835-11	s METAL CHIP 15K 5% 1/16W
R38	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R39	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R40	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R111	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R112	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R113	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R114	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R115	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R116	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R117	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R118	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R120	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R121	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R123	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R124	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R125	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R126	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R127	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R128	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R129	1-216-842-11	s METAL CHIP 56K 5% 1/16W
R131	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R132	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R133	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R134	1-216-847-11	s METAL CHIP 150K 5% 1/16W
R135	1-216-839-11	s METAL CHIP 33K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AU-97P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R136	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R137	1-216-846-11	s METAL CHIP 120K 5% 1/16W
R138	1-216-813-11	s METAL CHIP 220 5% 1/16W
R139	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R140	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R141	1-216-835-11	s METAL CHIP 15K 5% 1/16W
R142	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R143	1-218-306-11	s METAL CHIP 100K 1% 1/16W
R211	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R212	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R213	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R214	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R215	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R216	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R217	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R218	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R220	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R221	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R223	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R224	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R225	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R226	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R227	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R228	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R229	1-216-842-11	s METAL CHIP 56K 5% 1/16W
R231	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R232	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R233	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R234	1-216-847-11	s METAL CHIP 150K 5% 1/16W
R235	1-216-839-11	s METAL CHIP 33K 5% 1/16W
R236	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R237	1-216-846-11	s METAL CHIP 120K 5% 1/16W
R238	1-216-813-11	s METAL CHIP 220 5% 1/16W
R239	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R240	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R241	1-216-835-11	s METAL CHIP 15K 5% 1/16W
R242	1-216-844-11	s METAL CHIP 82K 5% 1/16W
R243	1-218-306-11	s METAL CHIP 100K 1% 1/16W
R301	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R302	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R303	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R304	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R305	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R306	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R307	1-216-839-11	s METAL CHIP 33K 5% 1/16W
R308	1-218-817-11	s METAL CHIP 470 5% 1/16W
R309	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R310	1-216-885-11	s METAL CHIP 27K 0.50% 1/10W
R311	1-216-865-11	s METAL CHIP 3.9K 0.50% 1/10W
R312	1-216-879-11	s METAL CHIP 15K 0.50% 1/10W
R314	1-216-857-11	s METAL CHIP 1M 5% 1/16W
R315	1-216-857-11	s METAL CHIP 1M 5% 1/16W
R316	1-216-658-11	s METAL CHIP 2K 0.50% 1/10W
R317	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R318	1-216-833-11	s METAL CHIP 10K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AU-97P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R319	1-216-813-11	s METAL CHIP 220 5% 1/16W
R320	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R321	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R401	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R402	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R403	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R404	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R405	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R406	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R407	1-216-839-11	s METAL CHIP 33K 5% 1/16W
R408	1-216-817-11	s METAL CHIP 470 5% 1/16W
R409	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R410	1-216-685-11	s METAL CHIP 27K 0.50% 1/10W
R411	1-216-865-11	s METAL CHIP 3.9K 0.50% 1/10W
R412	1-216-679-11	s METAL CHIP 15K 0.50% 1/10W
R413	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R414	1-216-857-11	s METAL CHIP 1M 5% 1/16W
R415	1-216-857-11	s METAL CHIP 1M 5% 1/16W
R416	1-216-658-11	s METAL CHIP 2K 0.50% 1/10W
R417	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R418	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R419	1-216-813-11	s METAL CHIP 220 5% 1/16W
RV1	1-237-031-11	s RES, ADJ, METAL 200
RV2	1-237-032-11	s RES, ADJ, METAL 500
RV101	1-237-036-11	s RES, ADJ, METAL 10K
RV111	1-230-869-11	s RES, ADJ, METAL 4.7K
RV112	1-237-037-11	s RES, ADJ, METAL 20K
RV113	1-237-036-11	s RES, ADJ, METAL 10K
RV121	1-230-869-11	s RES, ADJ, METAL 4.7K
RV122	1-237-037-11	s RES, ADJ, METAL 20K
RV123	1-237-036-11	s RES, ADJ, METAL 10K
RV201	1-237-036-11	s RES, ADJ, METAL 10K
RV211	1-230-869-11	s RES, ADJ, METAL 4.7K
RV212	1-237-037-11	s RES, ADJ, METAL 20K
RV221	1-230-869-11	s RES, ADJ, METAL 4.7K
RV222	1-237-037-11	s RES, ADJ, METAL 20K
RV301	1-237-032-11	s RES, ADJ, METAL 500
RV302	1-237-035-11	s RES, ADJ, METAL 5K
RV303	1-237-036-11	s RES, ADJ, METAL 10K
RV401	1-237-032-11	s RES, ADJ, METAL 500
RV402	1-237-035-11	s RES, ADJ, METAL 5K
RV403	1-237-036-11	s RES, ADJ, METAL 10K
CN-400 BOARD		
Ref. No. or Q'ty	Part No.	SP Description
1pc	1-634-967-11	o PRINTED CIRCUIT BOARD, CN-400
CN1	1-565-146-11	o PIN, CONNECTOR (STRAIGHT) 13P
CN3	1-565-144-11	o CONNECTOR, 11P, MALE
CN4	1-565-142-11	o PIN, CONNECTOR (STRAIGHT) 9P

DR-124 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-144-A	o MOUNTED CIRCUIT BOARD, DR-124
C1	1-131-353-00	s TANTALUM 10uF 10% 25V
C2	1-131-353-00	s TANTALUM 10uF 10% 25V
C7	1-131-353-00	s TANTALUM 10uF 10% 25V
C8	1-124-556-11	s ELECT 2200uF 20% 16V
C9	1-126-176-11	s ELECT 220uF 20% 10V
C10	1-124-556-11	s ELECT 2200uF 20% 16V
C12	1-126-103-11	s ELECT 470uF 20% 16V
C13	1-131-347-00	s TANTALUM 1uF 10% 35V
C14	1-131-347-00	s TANTALUM 1uF 10% 35V
C15	1-131-347-00	s TANTALUM 1uF 10% 35V
C16	1-131-347-00	s TANTALUM 1uF 10% 35V
C17	1-131-347-00	s TANTALUM 1uF 10% 35V
C18	1-131-347-00	s TANTALUM 1uF 10% 35V
C19	1-131-347-00	s TANTALUM 1uF 10% 35V
C20	1-131-377-00	s TANTALUM 10uF 10% 35V
C21	1-124-478-11	s ELECT 100uF 20% 25V
C22	1-131-353-00	s TANTALUM 10uF 20% 35V
C26	1-131-367-00	s TANTALUM 22uF 10% 16V
C28	1-126-233-11	s ELECT 22uF 20% 35V
C29	1-126-233-11	s ELECT 22uF 20% 35V
C30	1-124-122-11	s ELECT 100uF 20% 50V
C31	1-135-136-21	s TANTALUM CHIP 6.8uF 10% 35V
C35	1-124-242-00	s ELECT 33uF 20% 25V
C36	1-131-347-00	s TANTALUM 1uF 10% 35V
C43	1-135-136-21	s TANTALUM CHIP 6.8uF 10% 35V
CN1	1-569-606-11	o CONNECTOR, 40P, MALE
CN2	1-566-573-11	o CONNECTOR, 25P, FEMALE
CN3	1-506-474-11	o CONNECTOR, 3P, MALE
D1	8-719-104-34	s DIODE 1S2836
D3	8-719-104-34	s DIODE 1S2836
D4	8-719-104-34	s DIODE 1S2836
D5	8-719-104-34	s DIODE 1S2836
D6	8-719-104-34	s DIODE 1S2836
D7	8-719-800-76	s DIODE 1SS226
D9	8-719-104-34	s DIODE 1S2836
D10	8-719-105-99	s DIODE KD6, 2K-81
D11	8-719-104-34	s DIODE 1S2836
D12	8-719-104-34	s DIODE 1S2836
D13	8-719-104-34	s DIODE 1S2836
D14	8-719-981-01	s DIODE BR81-004
D15	8-719-981-01	s DIODE BR81-004
D16	8-719-800-76	s DIODE 1SS226
IC2	8-759-926-48	s IC SN74HC244NS
IC3	8-752-031-03	s IC CXA1065M
IC4	8-752-031-03	s IC CXA1065M
IC5	8-752-031-03	s IC CXA1065M
IC6	8-752-031-03	s IC CXA1065M
IC7	8-759-234-20	s IC TC7S08F
IC8	8-759-979-69	s IC TSC426COA

(DR-124 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D1	8-729-216-22	s TRANSISTOR 2SA1162
Q2	8-729-100-66	s TRANSISTOR 2SC1623
Q3	8-729-100-66	s TRANSISTOR 2SC1623
Q4	8-729-216-22	s TRANSISTOR 2SA1162
Q5	8-729-100-66	s TRANSISTOR 2SC1623
Q6	8-729-216-22	s TRANSISTOR 2SA1162
Q7	8-729-143-44	s TRANSISTOR 2SA14631X
Q8	8-729-119-59	s TRANSISTOR 2SK612-Z
Q9	8-729-143-44	s TRANSISTOR 2SA14631X
Q10	8-729-119-59	s TRANSISTOR 2SK612-Z
Q12	8-729-100-66	s TRANSISTOR 2SC1623
Q14	8-729-112-65	s TRANSISTOR 2SA1462
Q15	8-729-112-65	s TRANSISTOR 2SA1462
Q19	8-729-122-63	s TRANSISTOR 2SA1226
Q20	8-729-421-71	s TRANSISTOR 2SK620
Q21	8-729-100-66	s TRANSISTOR 2SC1623
Q22	8-729-100-66	s TRANSISTOR 2SC1623
Q23	8-729-100-66	s TRANSISTOR 2SC1623
Q24	8-729-100-66	s TRANSISTOR 2SC1623
Q25	8-729-100-66	s TRANSISTOR 2SC1623
Q26	8-729-100-66	s TRANSISTOR 2SC1623
Q27	8-729-100-66	s TRANSISTOR 2SC1623
R1	1-216-682-11	s METAL CHIP 20K 0.50% 1/10W
R58	1-216-688-11	s METAL CHIP 5.1K 0.50% 1/10W
RV1	1-237-037-11	s RES, ADJ, METAL 20K
RV2	1-237-037-11	s RES, ADJ, METAL 20K
RV3	1-237-037-11	s RES, ADJ, METAL 20K

DUS-246 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-969-11	o PRINTED CIRCUIT BOARD, DUS-246

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

EN-79P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7513-961-A	o MOUNTED CIRCUIT BOARD, EN-79P
10pcs	3-621-124-00	o SPACER
1pc	3-724-709-01	o PLATE (EN-62), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C4	1-163-086-00	s CERAMIC CHIP 3PF 0.25PF 50V
C5	1-163-086-00	s CERAMIC CHIP 3PF 0.25PF 50V
C6	1-163-086-00	s CERAMIC CHIP 3PF 0.25PF 50V
C25	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C26	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C28	1-163-127-00	s CERAMIC CHIP 270PF 5% 50V
C30	1-135-180-21	s TANTAL 3.3uF 10% 10V
C34	1-163-084-00	s CERAMIC CHIP 1.5PF 0.25PF 50V
C40	1-163-127-00	s CERAMIC CHIP 270PF 5% 50V
C42	1-135-180-21	s TANTAL 3.3uF 10% 10V
C44	1-126-392-11	s ELECT 100uF 20% 6.3V
C50	1-163-241-11	s CERAMIC CHIP 39PF 5% 50V
C51	1-163-241-11	s CERAMIC CHIP 39PF 5% 50V
C52	1-135-162-21	s TANTALUM CHIP 33uF 10% 6.3V
C59	1-163-115-00	s CERAMIC CHIP 82PF 5% 50V
C62	1-135-180-21	s TANTAL 3.3uF 10% 10V
C63	1-135-180-21	s TANTAL 3.3uF 10% 10V
C64	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C68	1-135-158-21	s TANTALUM 15uF 10% 4V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CV1	1-141-347-11	s TRIMMER 10PF
DL1	1-415-562-11	s DELAY LINE, 338ns
FL3	1-235-181-00	s BAND PASS 4.43MHz
IC1	8-759-208-11	s IC TC4053BF8B
IC2	8-759-911-77	s IC CX7968A
IC3	1-807-421-11	s IC BN-1216
IC4	1-807-419-11	s IC BN-1214
IC5	1-807-418-11	s IC BN-1213
IC7	8-741-135-60	s IC 8X1356
IC8	8-759-906-59	s IC CX22017
IC9	8-759-200-79	s IC TC4049BP
IC10	1-807-423-11	s IC BN-1218
L1	1-410-713-31	s CHIP 47uH
L4	1-410-713-31	s CHIP 47uH
L5	1-410-715-31	s CHIP 68uH
L6	1-410-715-31	s CHIP 68uH
L7	1-410-713-31	s CHIP 47uH
LV2	1-408-844-00	s COIL, VAR 22uH
Q1	8-729-100-66	s TRANSISTOR 2SC1623
Q2	8-729-100-66	s TRANSISTOR 2SC1623
Q3	8-729-100-66	s TRANSISTOR 2SC1623
Q4	8-729-216-22	s TRANSISTOR 2SA1162
Q5	8-729-100-66	s TRANSISTOR 2SC1623

(EN-79P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q10	8-729-100-66	s TRANSISTOR 2SC1623
Q11	8-729-100-66	s TRANSISTOR 2SC1623
Q12	8-729-100-66	s TRANSISTOR 2SC1623
Q13	8-729-122-63	s TRANSISTOR 2SA1226
Q14	8-729-100-66	s TRANSISTOR 2SC1623
Q15	8-729-216-22	s TRANSISTOR 2SA1162
Q18	8-729-100-66	s TRANSISTOR 2SC1623
Q19	8-729-100-66	s TRANSISTOR 2SC1623
Q20	8-729-100-66	s TRANSISTOR 2SC1623
Q21	8-729-122-63	s TRANSISTOR 2SA1226
Q22	8-729-100-66	s TRANSISTOR 2SC1623
Q23	8-729-100-66	s TRANSISTOR 2SC1623
Q24	8-729-100-66	s TRANSISTOR 2SC1623
Q25	8-729-100-66	s TRANSISTOR 2SC1623
Q26	8-729-162-43	s TRANSISTOR 2SB624-BV3
Q27	8-729-162-43	s TRANSISTOR 2SB624-BV3
Q28	8-729-162-43	s TRANSISTOR 2SB624-BV3
Q29	8-729-159-64	s TRANSISTOR 2SO596
Q30	8-729-216-22	s TRANSISTOR 2SA1162
Q31	8-729-100-66	s TRANSISTOR 2SC1623
Q32	8-729-100-66	s TRANSISTOR 2SC1623
Q33	8-729-100-66	s TRANSISTOR 2SC1623
Q34	8-729-216-22	s TRANSISTOR 2SA1162
Q35	8-729-100-66	s TRANSISTOR 2SC1623
Q36	8-729-100-66	s TRANSISTOR 2SC1623
R17	1-216-687-11	s METAL CHIP 33K 0.50% 1/10W
R18	1-216-687-11	s METAL CHIP 33K 0.50% 1/10W
R19	1-216-687-11	s METAL CHIP 33K 0.50% 1/10W
R20	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R21	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R22	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R26	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R27	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R28	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R34	1-216-681-11	s METAL CHIP 18K 0.50% 1/10W
R35	1-216-662-11	s METAL CHIP 3K 0.50% 1/10W
R36	1-216-662-11	s METAL CHIP 3K 0.50% 1/10W
R37	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R38	1-216-623-11	s METAL CHIP 6.8K 0.50% 1/10W
R43	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R44	1-216-663-11	s METAL CHIP 3.3K 0.50% 1/10W
R45	1-216-647-11	s METAL CHIP 680 0.50% 1/10W
R46	1-216-661-11	s METAL CHIP 2.7K 0.50% 1/10W
R51	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R60	1-216-627-11	s METAL CHIP 10K 0.50% 1/10W
R64	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R69	1-216-644-11	s METAL CHIP 510 0.50% 1/10W
R71	1-216-653-11	s METAL CHIP 1.2K 0.50% 1/10W
R75	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R76	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R77	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R78	1-216-638-11	s METAL CHIP 300 0.50% 1/10W
R79	1-216-638-11	s METAL CHIP 300 0.50% 1/10W
R83	1-216-653-11	s METAL CHIP 1.2K 0.50% 1/10W
R84	1-216-603-11	s METAL CHIP 10 0.50% 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(EN-79P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R85	1-216-650-11	s METAL CHIP 910 0.50% 1/10W
R88	1-216-666-11	s METAL CHIP 4.3K 0.50% 1/10W
R89	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R90	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R91	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R99	1-216-644-11	s METAL CHIP 510 0.50% 1/10W
R102	1-216-661-11	s METAL CHIP 2.7K 0.50% 1/10W
R105	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R106	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R107	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R113	1-216-642-11	s METAL CHIP 430 0.50% 1/10W
R114	1-216-642-11	s METAL CHIP 430 0.50% 1/10W
R121	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R122	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R129	1-216-663-11	s METAL CHIP 3.3K 0.50% 1/10W
R135	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R141	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R143	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R144	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R145	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R148	1-216-668-11	s METAL CHIP 5.1K 0.50% 1/10W
R149	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R152	1-216-639-11	s METAL CHIP 330 0.50% 1/10W
R157	1-216-691-11	s METAL CHIP 47K 0.50% 1/10W
RB1	1-239-024-11	s MATRIX RESISTOR
RB2	1-239-025-11	s MATRIX RESISTOR
RB3	1-239-026-11	s MATRIX RESISTOR
RV1	1-237-034-11	s RES. ADJ. METAL 2K
RV2	1-237-034-11	s RES. ADJ. METAL 2K
RV3	1-237-034-11	s RES. ADJ. METAL 2K
RV6	1-237-036-11	s RES. ADJ. METAL 10K
RV8	1-237-033-11	s RES. ADJ. METAL 1K
RV9	1-228-473-00	s RES. ADJ. METAL 5K
RV10	1-228-473-00	s RES. ADJ. METAL 5K
RV11	1-237-033-11	s RES. ADJ. METAL 1K
RV12	1-237-033-11	s RES. ADJ. METAL 1K
RV13	1-237-036-11	s RES. ADJ. METAL 10K
RV15	1-237-034-11	s RES. ADJ. METAL 2K
RV16	1-237-035-11	s RES. ADJ. METAL 5K
RV17	1-228-473-00	s RES. ADJ. METAL 5K
RV18	1-237-033-11	s RES. ADJ. METAL 1K
RV19	1-237-032-11	s RES. ADJ. METAL 500
RV20	1-237-032-11	s RES. ADJ. METAL 500
RV21	1-237-032-11	s RES. ADJ. METAL 500
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-570-857-11	s SWITCH, SLIDE
S3	1-570-375-12	s SWITCH, SLIDE

EX-148 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7520-314-A	s MOUNTED CIRCUIT BOARD, EX-148
4pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
CN1	1-566-960-11	s CONNECTOR, 50P, MALE
CN2	1-566-961-11	s CONNECTOR, 50P, FEMALE

FE-4 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6725-603-A	s MOUNTED CIRCUIT BOARD, FE-4
1pc	3-722-419-01	s HOLDER, FE-4
2pcs	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)
C1	1-136-562-11	s FILM 0.0082uF 5K 200V
C5	1-126-101-11	s ELECT 100uF 20% 10V
C8	1-163-018-00	s CERAMIC CHIP 0.0056uF 5K 50V
C11	1-164-146-11	s CERAMIC CHIP 0.0033uF 10% 50V
C12	1-164-146-11	s CERAMIC CHIP 0.0033uF 10% 50V
C15	1-163-001-11	s CERAMIC 220pF 10% 50V
C16	1-126-157-11	s ELECT 10uF 20% 16V
CN1	1-566-977-11	s PIN, CONNECTOR 12PIN
CP1	1-424-101-11	s TRANSFORMER, PE
CS1	1-806-682-71	s SENSOR, DEM CONDENSATION
IC1	8-759-805-32	s IC LA7205M
L1	1-464-909-11	s SENSOR, COIL
L2	1-408-429-00	s INDUCTOR 470uH
Q1	8-729-159-64	s TRANSISTOR 2SD596
Q2	8-729-159-64	s TRANSISTOR 2SD596
R3	1-216-685-11	s METAL CHIP 27K 0.50% 1/10W
R4	1-216-685-11	s METAL CHIP 27K 0.50% 1/10W

FL-45 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-891-11	s PRINTED CIRCUIT BOARD, FL-45

FL-46 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-892-11	s PRINTED CIRCUIT BOARD, FL-46

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

FL-55P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-349-A	o MOUNTED CIRCUIT BOARD, FL-55P
C1	1-163-135-00	s CERAMIC CHIP 560PF 5% 50V
C4	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C11	1-163-135-00	s CERAMIC CHIP 560PF 5% 50V
D1	8-719-941-09	s DIODE DAP202U
IC1	8-759-981-54	s IC RC2041MD
Q1	8-729-209-07	s TRANSISTOR 2SC4213B
Q2	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q11	8-729-209-07	s TRANSISTOR 2SC4213B
R1	1-216-603-11	s METAL CHIP 10 0.50% 1/10W
R11	1-216-603-11	s METAL CHIP 10 0.50% 1/10W
RV1	1-228-478-11	s RES. ADJ. METAL 200K
RV11	1-228-478-11	s RES. ADJ. METAL 200K
RV1	1-515-614-21	s REPLY

FL-57 BOARD

Ref. No. or Q'ty	Part No.	SP Description
3**	1-625-895-11	s PRINTED CIRCUIT BOARD, FL-57

HP-43 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-627-593-11	o PRINTED CIRCUIT BOARD, HP-43
C1	1-162-773-11	s CERAMIC 0.0047uF 5% 50V
C2	1-162-773-11	s CERAMIC 0.0047uF 5% 50V
J1	1-507-980-11	s JACK, PHONE
R1	1-249-395-11	s CARBON 15 5% 1/4W
R2	1-249-395-11	s CARBON 15 5% 1/4W

IE-30P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-156-A	o MOUNTED CIRCUIT BOARD, IE-30P
2pcs	3-621-124-00	o SPACER
1pc	3-724-712-01	o PLATE (IE-30), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2. M100LE
C7	1-124-282-00	s ELECT 22uF 20% 16V
C17	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C18	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C32	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C33	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C35	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C37	1-163-099-00	s CERAMIC CHIP 18PF 5% 50V
C45	1-164-330-21	s CERAMIC CHIP 0.22uF 10% 16V
C48	1-162-637-11	s CERAMIC CHIP 0.47 16V
C71	1-124-584-00	s ELECT 100uF 20% 10V
C72	1-163-116-00	s CERAMIC CHIP 91PF 5% 50V
C76	1-163-081-00	s CERAMIC CHIP 0.22uF 25V
C82	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C93	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C97	1-124-584-00	s ELECT 100uF 20% 10V
C98	1-124-286-00	s ELECT (NONPOLAR) 33 20% 16V
C99	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V
C101	1-131-379-00	s TANTALUM 22uF 10% 10V
C102	1-163-088-00	s CERAMIC CHIP 5PF 0.25PF 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CV1	1-141-370-11	s CAP. CHIP TRIMMER 50PF
CV2	1-141-311-11	s TRIMMER 20PF
CV3	1-141-311-11	s TRIMMER 20PF
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-104-31	s DIODE 1S2838
D3	8-719-104-31	s DIODE 1S2838
D4	8-719-948-47	s DIODE HSM88AS
D5	8-719-948-47	s DIODE HSM88AS
D6	8-719-800-76	s DIODE 1SS226
D7	8-719-104-34	s DIODE 1S2836
D8	8-719-948-47	s DIODE HSM88AS
D9	8-719-948-47	s DIODE HSM88AS
DL1	1-415-756-11	s DELAY LINE
DL2	1-415-485-11	s DELAY LINE 120nS+6nS
IC1	8-759-981-51	s IC RC1496W
IC4	8-759-906-53	s IC TL062CPS
IC5	1-807-422-11	s IC BH-1217
IC6	8-759-906-53	s IC TL062CPS
IC7	8-759-981-51	s IC RC1496W
IC8	8-759-009-51	s IC MC1438BF
IC9	8-759-009-51	s IC MC1438BF
IC10	8-759-008-79	s IC TC4011BF

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(18-30P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L1	1-410-713-31	s INDUCTOR CHIP 47uH
L4	1-410-717-31	s INDUCTOR CHIP 100uH
L5	1-410-705-31	s INDUCTOR CHIP 10uH
L6	1-410-708-31	s INDUCTOR CHIP 18uH
L7	1-410-717-31	s INDUCTOR CHIP 100uH
LVI	1-408-845-00	s COIL, VAR 100uH
Q1	8-729-122-63	s TRANSISTOR 2SA1226
Q2	8-729-175-72	s TRANSISTOR 2SC2757
Q3	8-729-122-63	s TRANSISTOR 2SA1226
Q9	8-729-175-72	s TRANSISTOR 2SC2757
Q10	8-729-175-72	s TRANSISTOR 2SC2757
Q11	8-729-175-72	s TRANSISTOR 2SC2757
Q12	8-729-100-66	s TRANSISTOR 2SC1623
Q13	8-729-175-72	s TRANSISTOR 2SC2757
Q14	8-729-122-63	s TRANSISTOR 2SA1226
Q15	8-729-175-72	s TRANSISTOR 2SC2757
Q21	8-729-175-72	s TRANSISTOR 2SC2757
Q22	8-729-175-72	s TRANSISTOR 2SC2757
Q23	8-729-175-72	s TRANSISTOR 2SC2757
Q24	8-729-122-63	s TRANSISTOR 2SA1226
Q25	8-729-109-44	s TRANSISTOR 2SK94
Q26	8-729-109-44	s TRANSISTOR 2SK94
Q27	8-729-122-63	s TRANSISTOR 2SA1226
Q28	8-729-122-63	s TRANSISTOR 2SA1226
Q29	8-729-109-44	s TRANSISTOR 2SK94
Q30	8-729-109-44	s TRANSISTOR 2SK94
Q31	8-729-122-63	s TRANSISTOR 2SA1226
Q32	8-729-122-63	s TRANSISTOR 2SA1226
Q33	8-729-122-63	s TRANSISTOR 2SA1226
Q34	8-729-122-63	s TRANSISTOR 2SA1226
Q35	8-729-122-63	s TRANSISTOR 2SA1226
Q36	8-729-122-63	s TRANSISTOR 2SA1226
Q37	8-729-100-66	s TRANSISTOR 2SC1623
Q38	8-729-109-44	s TRANSISTOR 2SK94
Q41	8-729-175-72	s TRANSISTOR 2SC2757
Q42	8-729-175-72	s TRANSISTOR 2SC2757
Q43	8-729-175-72	s TRANSISTOR 2SC2757
Q44	8-729-109-44	s TRANSISTOR 2SK94
Q45	8-729-109-44	s TRANSISTOR 2SK94
Q46	8-729-175-72	s TRANSISTOR 2SC2757
Q47	8-729-175-72	s TRANSISTOR 2SC2757
Q48	8-729-122-63	s TRANSISTOR 2SA1226
Q49	8-729-122-63	s TRANSISTOR 2SA1226
Q50	8-729-100-66	s TRANSISTOR 2SC1623
Q51	8-729-122-63	s TRANSISTOR 2SA1226
Q52	8-729-122-63	s TRANSISTOR 2SA1226
Q53	8-729-175-72	s TRANSISTOR 2SC2757
Q54	8-729-175-72	s TRANSISTOR 2SC2757
Q56	8-729-122-63	s TRANSISTOR 2SA1226
Q57	8-729-122-63	s TRANSISTOR 2SA1226
Q58	8-729-216-22	s TRANSISTOR 2SA1162
Q59	8-729-100-66	s TRANSISTOR 2SC1623

(1E-30P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R7	1-216-627-11	s METAL CHIP 100 0.50K 1/10W
R8	1-216-669-11	s METAL CHIP 5.6K 0.50K 1/10W
R10	1-216-647-11	s METAL CHIP 680 0.50K 1/10W
R13	1-216-641-11	s METAL CHIP 390 0.50K 1/10W
R28	1-216-631-11	s METAL CHIP 150 0.50K 1/10W
R29	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R32	1-216-634-11	s METAL CHIP 200 0.50K 1/10W
R33	1-216-658-11	s METAL CHIP 2K 0.50K 1/10W
R34	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R45	1-216-639-11	s METAL CHIP 330 0.50K 1/10W
R59	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R60	1-216-631-11	s METAL CHIP 150 0.50K 1/10W
R63	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R79	1-216-658-11	s METAL CHIP 2K 0.50K 1/10W
R80	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R81	1-216-658-11	s METAL CHIP 2K 0.50K 1/10W
R82	1-216-643-11	s METAL CHIP 470 0.50K 1/10W
R88	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R89	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R91	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R93	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R94	1-216-658-11	s METAL CHIP 2K 0.50K 1/10W
R108	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R109	1-216-659-11	s METAL CHIP 2.2K 0.50K 1/10W
R110	1-216-659-11	s METAL CHIP 2.2K 0.50K 1/10W
R127	1-216-667-11	s METAL CHIP 4.7K 0.50K 1/10W
R128	1-216-667-11	s METAL CHIP 4.7K 0.50K 1/10W
R129	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R147	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R148	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R161	1-216-682-11	s METAL CHIP 20K 0.50K 1/10W
R162	1-216-689-11	s METAL CHIP 39K 0.50K 1/10W
R163	1-216-679-11	s METAL CHIP 15K 0.50K 1/10W
R164	1-216-680-11	s METAL CHIP 16K 0.50K 1/10W
RV1	1-237-034-11	s RES. ADJ. METAL 2K
RV2	1-237-032-11	s RES. ADJ. METAL 50K
RV3	1-237-035-11	s RES. ADJ. METAL 5K
RV4	1-228-471-00	s RES. ADJ. METAL 1K
RV5	1-228-474-00	s RES. ADJ. METAL 10K
RV6	1-237-035-11	s RES. ADJ. METAL 5K
RV7	1-228-472-00	s RES. ADJ. METAL 2K
RV8	1-228-470-00	s RES. ADJ. METAL 500
RV10	1-237-035-11	s RES. ADJ. METAL 5K
RV12	1-237-038-11	s RES. ADJ. METAL 50K
RV13	1-237-032-11	s RES. ADJ. METAL 500
RV14	1-237-033-11	s RES. ADJ. METAL 1K
S1	1-570-610-11	s SWITCH, TOGGLE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

IE-31 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7520-000-A	o MOUNTED CIRCUIT BOARD, IE-31
C110	1-135-216-21	s TANTALUM CHIP 10uF 10% 10V
C113	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C114	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C115	1-135-216-21	s TANTALUM CHIP 10uF 10% 10V
C116	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C118	1-135-216-21	s TANTALUM CHIP 10uF 10% 10V
C119	1-135-093-95	s TANTALUM CHIP 10uF 10% 16V
CN4	1-566-475-11	o PIN, SOCKET 3P
CN5	1-566-475-11	o PIN, SOCKET 3P
D10	8-719-800-76	s DIODE 1S2226
D13	1-415-408-11	s DELAY LINE, DUAL 50MS, 100ns
D14	1-415-502-11	s DELAY LINE, 100ns
Q65	8-729-122-63	s TRANSISTOR 2SC1226
Q66	8-729-100-66	s TRANSISTOR 2SC1623
Q67	8-729-100-66	s TRANSISTOR 2SC1623
Q68	8-729-175-72	s TRANSISTOR 2SC2757
Q69	8-729-175-72	s TRANSISTOR 2SC2757
Q70	8-729-100-66	s TRANSISTOR 2SC1623
Q71	8-729-175-72	s TRANSISTOR 2SC2757
Q72	8-729-122-63	s TRANSISTOR 2SC1226
Q73	8-729-122-63	s TRANSISTOR 2SC1226
Q74	8-729-100-66	s TRANSISTOR 2SC1623
Q75	8-729-100-66	s TRANSISTOR 2SC1623
R203	1-216-644-91	s METAL CHIP 510 0.50% 1/10W
R204	1-216-644-91	s METAL CHIP 510 0.50% 1/10W
R205	1-216-644-91	s METAL CHIP 510 0.50% 1/10W
R207	1-216-644-91	s METAL CHIP 510 0.50% 1/10W
R208	1-216-664-91	s METAL CHIP 3.6K 0.50% 1/10W
R209	1-216-656-91	s METAL CHIP 1.6K 0.50% 1/10W
R211	1-216-657-91	s METAL CHIP 1.8K 0.50% 1/10W
R215	1-216-042-00	s METAL CHIP 510 5% 1/10W
R217	1-216-658-91	s METAL CHIP 2K 0.50% 1/10W
R219	1-216-639-91	s METAL CHIP 330 0.50% 1/10W
R220	1-216-639-91	s METAL CHIP 330 0.50% 1/10W
R221	1-216-689-91	s METAL CHIP 39K 0.50% 1/10W
R224	1-216-656-91	s METAL CHIP 1.6K 0.50% 1/10W
R226	1-216-633-91	s METAL CHIP 180 0.50% 1/10W
R227	1-216-656-91	s METAL CHIP 1.6K 0.50% 1/10W
R231	1-216-639-91	s METAL CHIP 180 0.50% 1/10W
RV17	1-237-032-11	s RES, ADJ, METAL 500
RV18	1-237-032-11	s RES, ADJ, METAL 500
RV19	1-237-035-11	s RES, ADJ, METAL 5K
S2	1-553-510-11	s SWITCH, SLIDE

IF-298 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-149-A	o MOUNTED CIRCUIT BOARD, IF-298
C11	1-135-216-11	s TANTALUM CHIP 10uF 10% 10V
C12	1-135-216-11	s TANTALUM CHIP 10uF 10% 10V
C13	1-135-216-11	s TANTALUM CHIP 10uF 10% 10V
C33	1-135-216-11	s TANTALUM CHIP 10uF 10% 10V
CN1	1-506-476-11	o CONNECTOR, 11P, MALE
CN2	1-565-157-11	o CONNECTOR, 10P, MALE
CN3	1-565-161-11	o CONNECTOR, 14P, MALE
CN4	1-565-161-11	o CONNECTOR, 14P, MALE
CN5	1-506-473-11	o CONNECTOR, 8P, MALE
D1	8-719-104-31	s DIODE 1S2838
D2	8-719-101-58	s DIODE RDS, 6EL2
D3	8-719-104-31	s DIODE 1S2838
D6	8-719-104-31	s DIODE 1S2838
D7	8-719-800-76	s DIODE 1S2226
D8	8-719-104-31	s DIODE 1S2838
D9	8-719-104-31	s DIODE 1S2838
D10	8-719-104-31	s DIODE 1S2838
D11	8-719-104-31	s DIODE 1S2838
D12	8-719-104-31	s DIODE 1S2838
D13	8-719-104-31	s DIODE 1S2838
IC1	8-759-209-97	s IC TC4581P
IC2	8-759-101-12	s IC UPC311G2
IC3	8-741-158-80	s IC SBX1588-01
IC4	8-741-158-80	s IC SBX1588-01
IC5	8-741-158-80	s IC SBX1588-01
IC6	8-759-153-63	s IC CXD8154AM
IC7	8-759-008-79	s IC TC4011BF
IC8	8-759-009-19	s IC MC14081BF
IC9	8-759-009-19	s IC MC14081BF
IC10	8-759-207-74	s IC TC4030BFPH
IC11	8-759-209-90	s IC TC4571P
IC12	8-759-209-97	s IC TC4581P
IC13	8-759-205-78	s IC TC504013BF
IC14	8-759-209-69	s IC TC4511P
IC15	8-759-231-30	s IC TC4530F
IC16	8-759-209-57	s IC TC4569F
IC17	8-759-209-57	s IC TC4569F
L1	1-410-713-31	s INDUCTOR, CHIP 47uH
Q1	8-729-100-66	s TRANSISTOR 2SC1623
Q2	8-729-162-43	s TRANSISTOR 2SB624-BV3
Q3	8-729-159-64	s TRANSISTOR 2SD586
Q5	8-729-100-66	s TRANSISTOR 2SC1623
Q6	8-729-100-66	s TRANSISTOR 2SC1623
Q7	8-729-100-66	s TRANSISTOR 2SC1623
Q8	8-729-100-66	s TRANSISTOR 2SC1623
Q9	8-729-216-22	s TRANSISTOR 2SA1162
Q11	8-729-100-66	s TRANSISTOR 2SC1623
Q12	8-729-100-66	s TRANSISTOR 2SC1623
Q13	8-729-100-66	s TRANSISTOR 2SC1623

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(IF-298 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R4	1-249-437-11	s CARBON 47K 5% 1/4W
R8	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R9	1-216-620-11	s METAL CHIP 51 0.50% 1/10W
R10	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R11	1-216-649-11	s METAL CHIP 820 0.50% 1/10W
R14	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R15	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R16	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R22	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R23	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R24	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R28	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R29	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R30	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R40	1-216-663-11	s METAL CHIP 3.3K 0.50% 1/10W
R41	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R42	1-216-660-11	s METAL CHIP 2.4K 0.50% 1/10W
R53	1-218-761-00	s METAL CHIP 240K 0.50% 1/10W
R54	1-218-769-00	s METAL CHIP 510K 0.50% 1/10W
R64	1-218-769-00	s METAL CHIP 510K 0.50% 1/10W
R66	1-216-066-00	s METAL CHIP 5.1K 5% 1/10W
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-570-857-11	s SWITCH, SLIDE
S3	1-570-857-11	s SWITCH, SLIDE
S4	1-570-857-11	s SWITCH, SLIDE
S5	1-570-857-11	s SWITCH, SLIDE
S6	1-570-857-11	s SWITCH, SLIDE
S7	1-553-510-00	s SWITCH, SLIDE
S8	1-553-510-00	s SWITCH, SLIDE
T1	1-427-613-11	s TRANSFORMER, AUDIO INPUT OUTPUT

KY-124 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-549-11	o PRINTED CIRCUIT BOARD, KY-124
CN1	1-565-143-11	o CONNECTOR, 10P, MALE
D1	8-719-920-65	s DIODE GL-1ND1
D2	8-719-920-65	s DIODE GL-1ND1
D3	8-719-920-65	s DIODE GL-1ND1
S1	1-554-371-51	s SWITCH, TACT
S2	1-554-371-51	s SWITCH, TACT
S3	1-554-371-51	s SWITCH, TACT
S4	1-554-371-51	s SWITCH, TACT
S5	1-554-371-51	s SWITCH, TACT

LD-21 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6725-602-A	o MOUNTED CIRCUIT BOARD, LD-21
1pc	3-723-091-01	o BOLDER, TOP SENSOR
CN1	1-506-471-11	o CONNECTOR, 6P, MALE
D1	8-719-106-36	s DIODE RD8, 2M-B3
IC1	8-759-948-05	s IC B6229
L1	1-408-773-31	s INDUCTOR CHIP 4.7uH
L2	1-408-773-31	s INDUCTOR CHIP 4.7uH
L11	1-464-909-21	s SENSOR, CDIL
Q1	8-729-100-66	s TRANSISTOR 2SC1623

LP-40 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-086-11	o PRINTED CIRCUIT BOARD, LP-40
1pc	1-562-753-11	o CONNECTOR (WAFER), 8P, FEMALE
D1	8-719-950-72	s DIODE BR0035

LP-42 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-087-11	o PRINTED CIRCUIT BOARD, LP-42
D1	8-719-950-44	s DIODE GL-5LR40, RED
D2	8-719-950-44	s DIODE GL-5LR40, RED

LP-58 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-635-204-11	o PRINTED CIRCUIT BOARD, LP-58
1pc	1-562-753-11	o CONNECTOR (WAFER), 8P, FEMALE
CN2	1-565-135-11	o PIN, CONNECTOR (STRAIGHT) 2P
D1	8-719-950-72	s DIODE BR0035
D2	8-719-812-44	s DIODE TLD124, ORANGE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

MB-137P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-157-A	o MOUNTED CIRCUIT BOARD, MB-317P
2pcs	3-722-391-01	o NOLBER, GP2509
26pcs	3-729-061-01	s SCREW (M2X4,5) (TYPE 1)
C2	1-162-638-11	s CERAMIC CHIP 1 16V
C3	1-126-394-11	s ELECT 10uF 20% 16V
C4	1-162-638-11	s CERAMIC CHIP 1 16V
C5	1-126-394-11	s ELECT 10uF 20% 16V
C61	1-162-568-11	s CERAMIC CHIP 0.33uF 25V
C62	1-162-568-11	s CERAMIC CHIP 0.33uF 25V
C64	1-163-143-00	s CERAMIC CHIP 0.0012uF 5% 50V
C66	1-126-390-11	s ELECT 22uF 20% 6.3V
C101	1-162-638-11	s CERAMIC CHIP 1 16V
C102	1-162-638-11	s CERAMIC CHIP 1 16V
C103	1-162-638-11	s CERAMIC CHIP 1 16V
C104	1-162-638-11	s CERAMIC CHIP 1 16V
C105	1-162-638-11	s CERAMIC CHIP 1 16V
C106	1-162-638-11	s CERAMIC CHIP 1 16V
C121	1-162-638-11	s CERAMIC CHIP 1 16V
C126	1-135-201-11	s TANTALUM 10uF 20% 6.3V
C127	1-135-201-11	s TANTALUM 10uF 20% 6.3V
C151	1-126-403-11	s ELECT 3.3uF 20% 50V
C152	1-126-403-11	s ELECT 3.3uF 20% 50V
C153	1-126-403-11	s ELECT 3.3uF 20% 50V
C201	1-163-037-11	s CERAMIC CHIP 0.022uF 10% 25V
C202	1-163-037-11	s CERAMIC CHIP 0.022uF 10% 25V
C302	1-163-241-11	s CERAMIC CHIP 39PF 5% 50V
C401	1-162-638-11	s CERAMIC CHIP 1 16V
C402	1-164-004-11	s CERAMIC CHIP 0.1uF 10% 25V
C403	1-126-394-11	s ELECT 10uF 20% 16V
C404	1-164-004-11	s CERAMIC CHIP 0.1uF 10% 25V
C407	1-164-004-11	s CERAMIC CHIP 0.1uF 10% 25V
CN1	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN2	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN3	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN4	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN5	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN6	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN7	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN8	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN9	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN10	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN11	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN12	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN13	1-566-962-12	o CONNECTOR, BOARD TO BOARD 50P
CN21	1-566-400-11	o CONNECTOR, 20P, MALE
CN22	1-566-391-11	o CONNECTOR, 12P, MALE
CN23	1-506-468-11	o CONNECTOR, 3P, MALE
CN24	1-506-470-11	o CONNECTOR, 5P, MALE
CN25	1-506-468-11	o CONNECTOR, 3P, MALE
CN31	1-566-536-11	o CONNECTOR, FPC (21F) 20P
CN32	1-566-536-11	o CONNECTOR, FPC (21F) 20P

(MB-137P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CN41	1-562-772-11	o CONNECTOR, 12P, FEMALE
CN42	1-562-772-11	o CONNECTOR, 12P, FEMALE
CN43	1-562-772-11	o CONNECTOR, 12P, FEMALE
CN44	1-562-773-11	o CONNECTOR, 40P, FEMALE
CN50	1-566-397-11	o CONNECTOR, 14P, MALE
CN51	1-566-397-11	o CONNECTOR, 14P, MALE
CN52	1-506-471-11	o CONNECTOR, 6P, MALE
CN53	1-506-469-11	o CONNECTOR, 4P, MALE
CN54	1-566-398-11	o CONNECTOR, 16P, MALE
CN55	1-506-470-11	o CONNECTOR, 5P, MALE
CN56	1-506-481-11	o CONNECTOR, 2P, MALE
CN57	1-506-470-41	o CONNECTOR, 5P, MALE
CN58	1-566-395-11	o CONNECTOR, 10P, MALE
CN59	1-565-157-11	o CONNECTOR, 10P, MALE
CN60	1-564-710-11	s CONNECTOR, 8P, MALE
CN61	1-506-468-11	o CONNECTOR, 3P, MALE
CN62	1-506-469-11	o CONNECTOR, 4P, MALE
CN63	1-506-468-11	o CONNECTOR, 3P, MALE
CN64	1-564-704-11	o CONNECTOR, 2P, MALE
CN501	1-506-470-11	o CONNECTOR, 5P, MALE
CN502	1-506-471-11	o CONNECTOR, 6P, MALE
CN503	1-506-467-11	o CONNECTOR, 2P, MALE
CN504	1-506-468-11	o CONNECTOR, 3P, MALE
CN505	1-506-472-11	o CONNECTOR, 7P, MALE
CN506	1-506-467-11	o CONNECTOR, 2P, MALE
CN507	1-506-467-11	o CONNECTOR, 2P, MALE
CN508	1-565-156-11	o CONNECTOR, 3P, MALE
CN509	1-506-467-11	o CONNECTOR, 2P, MALE
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-104-31	s DIODE 1S2838
D3	8-719-104-31	s DIODE 1S2838
D4	8-719-104-31	s DIODE 1S2838
D61	8-719-941-23	s DIODE DA2040
D62	8-719-941-23	s DIODE DA2040
D63	8-719-105-28	s DIODE R02 4M-8
D64	8-719-105-28	s DIODE R02 4M-8
D101	8-719-200-36	s DIODE E104S04
D102	8-719-200-36	s DIODE E104S04
D103	8-719-200-36	s DIODE E104S04
D105	8-719-106-88	s DIODE RD15M-B1
D151	8-719-800-76	s DIODE 1SS226
D152	8-719-800-76	s DIODE 1SS226
D401	8-719-800-76	s DIODE 1SS226
D402	8-719-800-76	s DIODE 1SS226
D403	8-719-800-76	s DIODE 1SS226
IC1	8-759-403-48	s IC AN6701S
IC2	8-759-208-11	s IC TC4053RFB
IC3	8-759-209-57	s IC TC4569P
IC4	8-759-209-57	s IC TC4569P
IC61	8-759-906-53	s IC TL062CPS
IC62	8-759-208-11	s IC TC4053RFB
IC63	8-759-981-86	s IC RC4558M
IC101	8-759-805-06	s IC CA1127M
IC102	8-759-981-82	s IC RC4558M
IC121	8-759-981-82	s IC RC4558M

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(WB-137P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC122	8-759-981-92	s IC RC4558M
IC151	8-759-981-54	s IC RC2041MD
IC201	8-759-200-88	s IC TC4512BP
IC202	8-759-200-88	s IC TC4512BP
IC401	8-759-981-65	s IC LM2903M
IC402	8-759-605-18	s IC CX518
IC403	8-759-209-90	s IC TC4571F
IC404	8-759-208-11	s IC TC4053BPHB
IC405	8-759-209-97	s IC TC4581F
L1	1-410-713-31	s INDUCTOR CHIP 47uH
L2	1-410-713-31	s INDUCTOR CHIP 47uH
L3	1-410-709-31	s INDUCTOR CHIP 22uH
L16	1-410-713-31	s INDUCTOR CHIP 47uH
L151	1-410-704-21	s INDUCTOR CHIP 8.2uH
L152	1-410-704-21	s INDUCTOR CHIP 8.2uH
P031	8-719-939-05	s PHOTO SENSOR GP1S54
P032	8-719-939-05	s PHOTO SENSOR GP1S54
P033	8-719-939-05	s PHOTO SENSOR GP1S54
P034	8-719-939-05	s PHOTO SENSOR GP1S54
P035	8-719-939-05	s PHOTO SENSOR GP1S54
P036	8-719-939-11	s PHOTO SENSOR GP2S09-B
P037	8-719-939-11	s PHOTO SENSOR GP2S09-B
Q1	8-729-162-43	s TRANSISTOR 2SD624-BV3
Q2	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q3	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q4	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q5	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q6	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q31	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q32	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q33	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q34	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q35	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q36	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q37	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q107	8-729-106-68	s TRANSISTOR 2SD1615A-GP
Q108	8-729-109-44	s TRANSISTOR 2SK94
Q151	8-729-271-31	s TRANSISTOR 2SC2713G
Q201	8-729-216-22	s TRANSISTOR 2SA1162
Q202	8-729-421-71	s TRANSISTOR 2SK620
Q301	8-729-906-33	s TRANSISTOR DTC114YU
Q401	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q402	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q403	8-729-109-44	s TRANSISTOR 2SK94
Q404	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q405	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q501	8-729-102-68	s TRANSISTOR 2SC2757
R7	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R8	1-216-677-11	s METAL CHIP 12K 0.50% 1/10W
R9	1-216-680-11	s METAL CHIP 16K 0.50% 1/10W
R10	1-216-684-11	s METAL CHIP 24K 0.50% 1/10W
R11	1-216-624-11	s METAL CHIP 75 0.50% 1/10W

(WB-137P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R72	1-216-624-11	s METAL CHIP 75 0.50% 1/10W
R74	1-216-655-11	s METAL CHIP 1.5K 0.50% 1/10W
R75	1-216-662-11	s METAL CHIP 3K 0.50% 1/10W
R78	1-216-686-11	s METAL CHIP 30K 0.50% 1/10W
R101	1-216-691-11	s METAL CHIP 47K 0.50% 1/10W
R103	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R104	1-216-687-11	s METAL CHIP 33K 0.50% 1/10W
R116	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R121	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R122	1-216-679-11	s METAL CHIP 15K 0.50% 1/10W
R123	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R124	1-216-679-11	s METAL CHIP 15K 0.50% 1/10W
R153	1-216-691-11	s METAL CHIP 47K 0.50% 1/10W
R154	1-216-691-11	s METAL CHIP 47K 0.50% 1/10W
R155	1-216-638-11	s METAL CHIP 300 0.50% 1/10W
R157	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R158	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R161	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R162	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R163	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R164	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R166	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R167	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R168	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R169	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R501	1-216-690-11	s METAL CHIP 43K 0.50% 1/10W
R509	1-216-066-00	s METAL CHIP 5.1K 5% 1/10W
R514	1-216-114-00	s METAL CHIP 510K 5% 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

PR-132A BOARD

Ref. No. or Qty	Part No.	SP Description
1pc	A-7515-153-A	MOUNTED CIRCUIT BOARD, PR-132A
8pcs	3-621-124-00	SPACER
1pc	3-724-710-01	PLATE (PR-102), ORNAMENTAL
1pc	3-724-753-01	RING
5pcs	3-729-061-01	SCREEN (M2X4.5) (TYPE 1)
1pc	3-742-076-07	S LABEL, SERVICE PARTS CODE
1pc	7-623-952-21	WASHER 2.0, FIBER
1pc	7-688-001-12	S W 2, MIDDLE
C1	1-131-365-00	TANTALUM 10uF 10% 16V
C3	1-131-365-00	TANTALUM 10uF 10% 16V
C7	1-162-638-11	CERAMIC CHIP 1 16V
C9	1-126-151-11	ELECT 4.7uF 20% 16V
C24	1-162-638-11	CERAMIC CHIP 1 16V
C26	1-126-151-11	ELECT 4.7uF 20% 16V
C45	1-162-638-11	CERAMIC CHIP 1 16V
C47	1-126-151-11	ELECT 4.7uF 20% 16V
C63	1-131-374-00	TANTALUM 33uF 10% 10V
C65	1-135-125-21	TANTALUM CHIP 33uF 20% 10V
C66	1-135-125-21	TANTALUM CHIP 33uF 20% 10V
C80	1-135-125-21	TANTALUM CHIP 33uF 20% 10V
C86	1-135-125-21	TANTALUM CHIP 33uF 20% 10V
C87	1-135-165-11	TANTALUM CHIP 33uF 10% 16V
C91	1-163-130-00	CERAMIC 360PF 5% 50V
C92	1-163-127-00	CERAMIC CHIP 270PF 5% 50V
C93	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V
C95	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V
C96	1-102-951-00	CERAMIC 15PF 5% 50V
C97	1-101-880-00	CERAMIC 47PF 5% 50V
C98	1-101-880-00	CERAMIC 47PF 5% 50V
CN1	1-566-960-11	CONNECTOR, 50P, MALE
CV1	1-141-370-11	CAP, CHIP TRIMMER 50PF
CV2	1-141-370-11	CAP, CHIP TRIMMER 50PF
CV3	1-141-370-11	CAP, CHIP TRIMMER 50PF
D1	8-719-800-76	DIODE 1S5226
D4	8-719-948-47	DIODE 6SM88AS
D5	8-719-815-59	DIODE 1S1555-S
D6	8-719-815-59	DIODE 1S1555-S
D7	8-719-815-59	DIODE 1S1555-S
D8	8-719-815-59	DIODE 1S1555-S
D9	8-719-910-72	DIODE HZ7A2L
D10	8-719-800-76	DIODE 1S5226
D14	8-719-948-47	DIODE 6SM88AS
D15	8-719-815-59	DIODE 1S1555-S
D16	8-719-815-59	DIODE 1S1555-S
D17	8-719-815-59	DIODE 1S1555-S
D18	8-719-815-59	DIODE 1S1555-S
D19	8-719-910-72	DIODE HZ7A2L
D20	8-719-800-76	DIODE 1S5226
D24	8-719-948-47	DIODE 6SM88AS
D25	8-719-815-59	DIODE 1S1555-S
D26	8-719-815-59	DIODE 1S1555-S
D27	8-719-815-59	DIODE 1S1555-S
D28	8-719-815-59	DIODE 1S1555-S

(PR-132A BOARD)

Ref. No. or Qty	Part No.	SP Description
D29	8-719-910-72	DIODE HZ7A2L
DL1	1-415-489-11	DELAY LINE 160nS+8ns
DL2	1-415-489-11	DELAY LINE 160nS+8ns
DL3	1-415-489-11	DELAY LINE 160nS+8ns
IC1	1-807-422-11	S IC BW-1217
IC2	8-759-906-53	S IC TL062CPS
IC3	1-808-254-11	S IC BW-1251
IC4	1-807-422-11	S IC BW-1217
IC5	8-759-906-53	S IC TL062CPS
IC6	1-807-422-11	S IC BW-1217
IC7	8-759-906-53	S IC TL062CPS
IC9	1-807-422-11	S IC BW-1217
IC10	1-807-422-11	S IC BW-1217
IC11	8-759-906-53	S IC TL062CPS
IC13	1-807-422-11	S IC BW-1217
IC14	8-759-906-53	S IC TL062CPS
I2	1-410-713-31	S INDUCTOR, CHIP 47uH
I3	1-410-713-31	S INDUCTOR, CHIP 47uH
Q1	8-729-175-72	S TRANSISTOR 2SC2757
Q2	8-729-122-63	S TRANSISTOR 2SA1226
Q3	8-729-109-44	S TRANSISTOR 2SK94
Q4	8-729-175-72	S TRANSISTOR 2SC2757
Q10	8-729-175-72	S TRANSISTOR 2SC2757
Q11	8-729-175-72	S TRANSISTOR 2SC2757
Q12	8-729-175-72	S TRANSISTOR 2SC2757
Q13	8-729-175-72	S TRANSISTOR 2SC2757
Q14	8-729-109-44	S TRANSISTOR 2SK94
Q15	8-729-122-63	S TRANSISTOR 2SA1226
Q16	8-729-175-72	S TRANSISTOR 2SC2757
Q17	8-729-122-63	S TRANSISTOR 2SA1226
Q18	8-729-122-63	S TRANSISTOR 2SA1226
Q19	8-729-109-44	S TRANSISTOR 2SK94
Q20	8-729-175-72	S TRANSISTOR 2SC2757
Q26	8-729-175-72	S TRANSISTOR 2SC2757
Q27	8-729-175-72	S TRANSISTOR 2SC2757
Q28	8-729-175-72	S TRANSISTOR 2SC2757
Q29	8-729-175-72	S TRANSISTOR 2SC2757
Q30	8-729-109-44	S TRANSISTOR 2SK94
Q31	8-729-175-72	S TRANSISTOR 2SC2757
Q32	8-729-122-63	S TRANSISTOR 2SA1226
Q33	8-729-109-44	S TRANSISTOR 2SK94
Q34	8-729-175-72	S TRANSISTOR 2SC2757
Q42	8-729-175-72	S TRANSISTOR 2SC2757
Q43	8-729-175-72	S TRANSISTOR 2SC2757
Q44	8-729-175-72	S TRANSISTOR 2SC2757
Q45	8-729-175-72	S TRANSISTOR 2SC2757
Q46	8-729-109-44	S TRANSISTOR 2SK94
Q47	8-729-122-63	S TRANSISTOR 2SA1226
Q48	8-729-175-72	S TRANSISTOR 2SC2757
Q49	8-729-175-72	S TRANSISTOR 2SC2757
Q50	8-729-175-72	S TRANSISTOR 2SC2757
Q51	8-729-175-72	S TRANSISTOR 2SC2757
Q56	8-729-175-72	S TRANSISTOR 2SC2757

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(PR-132A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q58	8-729-175-72	s TRANSISTOR 2SC2757
Q65	8-729-175-72	s TRANSISTOR 2SC2757
Q67	8-729-122-63	s TRANSISTOR 2SA1226
Q68	8-729-122-63	s TRANSISTOR 2SA1226
Q69	8-729-175-72	s TRANSISTOR 2SC2757
Q71	8-729-175-72	s TRANSISTOR 2SC2757
Q73	8-729-175-72	s TRANSISTOR 2SC2757
Q74	8-729-175-72	s TRANSISTOR 2SC2757
Q75	8-729-216-22	s TRANSISTOR 2SA1162
Q76	8-729-162-43	s TRANSISTOR 2SB624-8V3
Q77	8-729-159-64	s TRANSISTOR 2SD596
R2	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R3	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R6	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R7	1-216-659-11	s METAL CHIP 2.2K 0.50K 1/10W
R12	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R14	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R17	1-216-684-11	s METAL CHIP 24K 0.50K 1/10W
R18	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R20	1-216-658-11	s METAL CHIP 2K 0.50K 1/10W
R21	1-216-658-11	s METAL CHIP 2K 0.50K 1/10W
R22	1-216-658-11	s METAL CHIP 2K 0.50K 1/10W
R35	1-216-649-11	s METAL CHIP 820 0.50K 1/10W
R38	1-216-686-11	s METAL CHIP 4.3K 0.50K 1/10W
R47	1-216-663-11	s METAL CHIP 3.3K 0.50K 1/10W
R55	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R56	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R60	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R61	1-216-659-11	s METAL CHIP 2.2K 0.50K 1/10W
R63	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R64	1-216-672-11	s METAL CHIP 7.5K 0.50K 1/10W
R69	1-216-684-11	s METAL CHIP 24K 0.50K 1/10W
R70	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R86	1-216-649-11	s METAL CHIP 820 0.50K 1/10W
R88	1-216-666-11	s METAL CHIP 4.3K 0.50K 1/10W
R98	1-216-663-11	s METAL CHIP 3.3K 0.50K 1/10W
R106	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R107	1-216-644-11	s METAL CHIP 510 0.50K 1/10W
R111	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R112	1-216-659-11	s METAL CHIP 2.2K 0.50K 1/10W
R116	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R118	1-216-651-11	s METAL CHIP 1K 0.50K 1/10W
R121	1-216-684-11	s METAL CHIP 24K 0.50K 1/10W
R122	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R141	1-216-649-11	s METAL CHIP 820 0.50K 1/10W
R143	1-216-666-11	s METAL CHIP 4.3K 0.50K 1/10W
R153	1-216-663-11	s METAL CHIP 3.3K 0.50K 1/10W
R165	1-216-661-11	s METAL CHIP 2.7K 0.50K 1/10W
R167	1-216-661-11	s METAL CHIP 2.7K 0.50K 1/10W
R170	1-216-663-11	s METAL CHIP 3.3K 0.50K 1/10W
R171	1-216-662-11	s METAL CHIP 3K 0.50K 1/10W

(PR-132A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R172	1-216-663-11	s METAL CHIP 3.3K 0.50K 1/10W
R163	1-216-661-11	s METAL CHIP 2.7K 0.50K 1/10W
R211	1-216-667-11	s METAL CHIP 4.7K 0.50K 1/10W
R212	1-216-669-11	s METAL CHIP 5.6K 0.50K 1/10W
R213	1-216-667-11	s METAL CHIP 4.7K 0.50K 1/10W
R226	1-216-661-11	s METAL CHIP 2.7K 0.50K 1/10W
R243	1-216-102-00	s METAL 160K 5% 1/10W
R244	1-216-690-11	s METAL CHIP 43K 0.50K 1/10W
R245	1-216-684-11	s METAL CHIP 24K 0.50K 1/10W
R246	1-216-693-11	s METAL CHIP 56K 0.50K 1/10W
R247	1-249-439-11	s CARBON 68K 5% 1/4W
R248	1-247-881-00	s CARBON 120K 5% 1/4W
R249	1-247-876-11	s CARBON 75K 5% 1/4W
RV1	1-237-032-11	s RES. ADJ. METAL 500
RV2	1-228-473-00	s RES. ADJ. METAL 5K
RV3	1-228-472-00	s RES. ADJ. METAL 2K
RV7	1-228-474-00	s RES. ADJ. METAL 10K
RV8	1-228-470-00	s RES. ADJ. METAL 500
RV9	1-228-471-00	s RES. ADJ. METAL 1K
RV10	1-237-032-11	s RES. ADJ. METAL 500
RV11	1-228-473-00	s RES. ADJ. METAL 5K
RV12	1-228-472-00	s RES. ADJ. METAL 2K
RV16	1-228-474-00	s RES. ADJ. METAL 10K
RV17	1-228-470-00	s RES. ADJ. METAL 500
RV18	1-228-471-00	s RES. ADJ. METAL 1K
RV19	1-237-032-11	s RES. ADJ. METAL 500
RV20	1-228-473-00	s RES. ADJ. METAL 5K
RV21	1-228-472-00	s RES. ADJ. METAL 2K
RV26	1-228-474-00	s RES. ADJ. METAL 10K
RV27	1-228-470-00	s RES. ADJ. METAL 500
RV28	1-228-471-00	s RES. ADJ. METAL 1K
RV29	1-237-036-11	s RES. ADJ. METAL 10K
RV30	1-237-036-11	s RES. ADJ. METAL 10K
RV34	1-237-036-11	s RES. ADJ. METAL 10K
RV35	1-237-036-11	s RES. ADJ. METAL 10K
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-570-857-11	s SWITCH, SLIDE
S3	1-570-857-11	s SWITCH, SLIDE
S4	1-570-857-11	s SWITCH, SLIDE
S5	1-570-857-11	s SWITCH, SLIDE
TH1	1-806-627-31	s THERMISTOR (POSITIVE)
TH2	1-806-627-31	s THERMISTOR (POSITIVE)
TH3	1-806-627-31	s THERMISTOR (POSITIVE)

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

PS-162 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	ΔA-6723-368-A	o MOUNTED CIRCUIT BOARD PS-162
1pc	3-724-752-01	o HOLDER (PS), PC BOARD
1pc	3-723-012-01	s SCREW (M2X5)
1pc	7-623-420-07	s L# 2, TYPE 8
C1	1-125-094-11	s ELECT 4.7uF 20% 16V
C4	1-125-309-00	s DOUBLE LAYERS 0.33FARAD 5.5V
C5	1-124-248-00	s ELECT 22uF 20% 25V
CB1	Δ1-532-681-00	s CIRCUIT BREAKER
CN1	1-564-705-11	s CONNECTOR, 3P, MALE
CN2	1-564-707-11	s CONNECTOR, 5P, MALE
CN3	1-506-468-11	s CONNECTOR, 3P, MALE
CN4	1-506-468-11	s CONNECTOR, 3P, MALE
CN5	1-564-710-11	s CONNECTOR, 8P, MALE
CN6	1-566-528-11	s CONNECTOR, FPC (ZIP) 12P
CN7	1-564-704-11	s CONNECTOR, 2P, MALE
CN8	1-506-469-11	s CONNECTOR, 4P, MALE
CN10	1-564-706-31	s CONNECTOR, 4P, MALE
D1	8-719-911-55	s DIODE 90SG
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-911-55	s DIODE 90SG
D5	8-719-160-20	s DIODE RD4, 7PB
IC1	8-759-906-53	s IC TL062CPS
IC2	8-759-939-41	s IC S-81230A6-RB
Q1	8-729-202-62	s TRANSISTOR 2SD1221
Q2	8-729-100-66	s TRANSISTOR 2SC1623
Q3	8-729-119-59	s TRANSISTOR 2SK612-Z
Q4	8-729-109-44	s TRANSISTOR 2SK94
R1	1-249-389-11	s CARBON 4.7 5% 1/6W
RV1	1-230-873-11	s RES. ADJ. METAL 47K
S1	1-570-610-11	s SWITCH, TOGGLE
S2	1-570-610-11	s SWITCH, TOGGLE

SG-152AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-155-A	o MOUNTED CIRCUIT BOARD, SG-152AP
2pcs	1-568-613-11	o CONNECTOR, FEMALE, 2P
2pcs	3-621-124-00	o SPACER
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	3-734-721-01	o PLATE (SG-152), ORNAMENTAL
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-131-388-00	s TANTALUM 68uF 10% 6.3V
C3	1-131-374-00	s TANTALUM 33uF 10% 10V
C5	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C7	1-163-099-00	s CERAMIC CHIP 18PF 5% 50V
C8	1-135-162-21	s TANTALUM CHIP 33uF 10% 6.3V
C9	1-163-241-11	s CERAMIC CHIP 39PF 5% 50V
C10	1-163-241-11	s CERAMIC CHIP 39PF 5% 50V
C11	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C13	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C14	1-163-809-11	s CERAMIC CHIP 0.047uF 5% 25V
C16	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C18	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C21	1-163-114-00	s CERAMIC CHIP 75PF 5% 50V
C24	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C28	1-163-809-11	s CERAMIC CHIP 0.047uF 5% 25V
C30	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C31	1-162-638-11	s CERAMIC CHIP 1.1uF
C38	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C42	1-103-119-00	s CERAMIC CHIP 100PF 10% 50V
C44	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C45	1-131-367-00	s TANTALUM 22uF 10% 16V
C46	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C49	1-131-367-00	s TANTALUM 22uF 10% 16V
C50	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C51	1-135-149-21	s TANTALUM CHIP 2.2uF 10% 10V
C58	1-162-638-11	s CERAMIC CHIP 1.1uF
C59	1-162-637-11	s CERAMIC CHIP 0.47 16V
C62	1-162-638-11	s CERAMIC CHIP 1.1uF
C66	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C67	1-131-374-00	s TANTALUM 33uF 10% 10V
C68	1-131-388-00	s TANTALUM 68uF 10% 6.3V
C70	1-163-011-11	s CERAMIC CHIP 0.0015 10% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-914-11	s DIODE 8ZALL
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-800-76	s DIODE 1SS226
D5	8-719-800-76	s DIODE 1SS226
D6	8-719-800-76	s DIODE 1SS226
D9	8-719-951-12	s DIODE RZ5BL
D10	8-719-948-47	s DIODE HSR88AS
D11	8-719-400-18	s DIODE MA152MK
D12	8-719-800-76	s DIODE 1SS226

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SG-152AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D13	8-719-910-65	DIODE M2662L
D15	8-719-921-12	DIODE M228LL
D16	8-719-109-81	DIODE R04.75S-62
D17	8-719-800-76	DIODE 1SS226
D18	8-719-104-34	DIODE 1S2836
D19	8-719-800-76	DIODE 1SS226
D20	8-719-409-18	DIODE MA152WK
IC1	8-741-104-00	IC 8X1040
IC2	8-759-101-12	IC UPC31162
IC3	8-752-335-47	IC CXD1216M
IC4	8-759-009-07	IC MC14053BF
IC5	8-759-906-54	IC TL064CNS
IC6	8-759-008-45	IC MCT48C453BF
IC7	8-757-930-11	IC CX7930A
IC8	8-759-200-79	IC TC40498P
IC9	8-759-204-93	IC TC50H001F
IC10	8-759-209-57	IC TC4S69F
IC11	8-759-907-21	IC CX7969
IC12	8-759-204-93	IC TC50H001F
IC13	8-759-906-54	IC TL064CNS
IC14	8-759-632-07	IC M5237L
IC15	8-759-009-07	IC MC14053BF
IC17	8-759-906-54	IC TL064CNS
IC18	8-759-209-57	IC TC4S69F
IC19	8-759-209-57	IC TC4S69F
IC20	8-759-209-57	IC TC4S69F
IC25	8-759-112-66	IC UPC31262
L1	1-410-713-31	INDUCTOR, CHIP 47uH
L2	1-410-713-31	INDUCTOR, CHIP 47uH
L3	1-410-713-31	INDUCTOR, CHIP 47uH
L4	1-410-709-31	INDUCTOR, CHIP 22uH
L5	1-410-709-31	INDUCTOR, CHIP 22uH
L6	1-410-713-31	INDUCTOR, CHIP 47uH
L7	1-410-713-31	INDUCTOR, CHIP 47uH
L8	1-410-713-31	INDUCTOR, CHIP 47uH
L9	1-410-713-31	INDUCTOR, CHIP 47uH
L10	1-410-713-31	INDUCTOR, CHIP 47uH
L11	1-410-708-31	INDUCTOR, CHIP 18uH
LVI	1-410-619-11	100uH
Q1	8-729-216-22	TRANSISTOR 2SA1162
Q2	8-729-100-66	TRANSISTOR 2SC1623
Q3	8-729-100-66	TRANSISTOR 2SC1623
Q4	8-729-100-66	TRANSISTOR 2SC1623
Q5	8-729-100-66	TRANSISTOR 2SC1623
Q6	8-729-216-22	TRANSISTOR 2SA1162
Q7	8-729-216-22	TRANSISTOR 2SA1162
Q8	8-729-807-33	TRANSISTOR 2SB1123
Q9	8-729-807-50	TRANSISTOR 2SD1623
Q10	8-729-807-33	TRANSISTOR 2SB1123

(SG-152AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q11	8-729-100-66	TRANSISTOR 2SC1623
Q12	8-729-807-33	TRANSISTOR 2SB1123
Q13	8-729-216-22	TRANSISTOR 2SA1162
Q16	8-729-100-66	TRANSISTOR 2SC1623
Q19	8-729-100-66	TRANSISTOR 2SC1623
Q20	8-729-100-66	TRANSISTOR 2SC1623
Q21	8-729-216-22	TRANSISTOR 2SA1162
Q22	8-729-216-22	TRANSISTOR 2SA1162
Q23	8-729-100-66	TRANSISTOR 2SC1623
R14	1-216-066-00	METAL CHIP 5.1K 5% 1/10W
R17	1-216-066-00	METAL CHIP 5.1K 5% 1/10W
R22	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W
R58	1-216-681-91	METAL CHIP 33K 0.50% 1/10W
R59	1-216-681-91	METAL CHIP 2.7K 0.50% 1/10W
R61	1-216-687-11	METAL CHIP 33K 0.50% 1/10W
R62	1-216-689-11	METAL CHIP 39K 0.50% 1/10W
R63	1-216-688-11	METAL CHIP 36K 0.50% 1/10W
R64	1-216-687-11	METAL CHIP 33K 0.50% 1/10W
R65	1-216-693-11	METAL CHIP 56K 0.50% 1/10W
R79	1-216-635-11	METAL CHIP 220 0.50% 1/10W
R80	1-216-649-11	METAL CHIP 820 0.50% 1/10W
R99	1-216-126-11	METAL CHIP 1.6M 5% 1/10W
R110	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W
R137	1-216-697-11	METAL CHIP 82K 0.50% 1/10W
R138	1-216-651-11	METAL CHIP 1K 0.50% 1/10W
R139	1-216-627-11	METAL CHIP 100 0.50% 1/10W
R140	1-216-679-11	METAL CHIP 15K 0.50% 1/10W
R141	1-216-675-11	METAL CHIP 10K 0.50% 1/10W
R147	1-216-691-11	METAL CHIP 47K 0.50% 1/10W
R150	1-216-295-00	METAL CHIP 0.5K 1/10W
R151	1-216-690-11	METAL CHIP 43K 0.50% 1/10W
R153	1-216-104-00	METAL CHIP 200K 5% 1/10W
RV2	1-228-474-00	RES. ADJ. METAL 10K
RV3	1-237-037-11	RES. ADJ. METAL 20K
RV4	1-237-033-11	RES. ADJ. METAL 1K
RV5	1-228-472-00	RES. ADJ. METAL 2K
RV6	1-228-475-00	RES. ADJ. METAL 20K
RV7	1-228-475-00	RES. ADJ. METAL 20K
S2	1-553-925-00	SWITCH, ROTARY
S3	1-570-857-11	SWITCH, SLIDE
X1	1-567-644-11	14.31818MHz

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

SG-157 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7520-420-A	o MOUNTED CIRCUIT BOARD, SG-157A
C77	1-163-099-00	s CERAMIC CHIP 18PF 5% 50V
CN1	1-565-151-11	o CONNECTOR, 4P, MALE
CN2	1-568-622-11	o CONNECTOR, MALE, 2P
CN3	1-568-622-11	o CONNECTOR, MALE, 2P
IC22	8-759-100-94	s IC UPC35862
IC23	8-759-009-07	s IC MC14053BP
IC24	8-759-902-88	s IC SN74LS123MS
Q24	8-729-100-66	s TRANSISTOR 2SC1623
R122	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R123	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R124	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R125	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R126	1-216-674-11	s METAL CHIP 9.1K 0.50% 1/10W
R127	1-216-658-11	s METAL CHIP 2K 0.50% 1/10W
R128	1-216-633-11	s METAL CHIP 3.3K 0.50% 1/10W
R129	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R130	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R131	1-216-651-11	s METAL CHIP 1K 0.50% 1/10W
R132	1-216-685-11	s METAL CHIP 27K 0.50% 1/10W
R133	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R134	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R135	1-216-685-11	s METAL CHIP 27K 0.50% 1/10W
R136	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
RV8	1-237-037-11	s RES. ADJ. METAL 20K
S4	1-553-510-00	s SWITCH, SLIDE

SR-40 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6754-072-A	o MOUNTED CIRCUIT BOARD, SR-40
PD1	8-719-948-58	s PHOTO SENSOR GP2507B
PD2	8-719-948-58	s PHOTO SENSOR GP2507B
PD3	8-719-948-58	s PHOTO SENSOR GP2507B
PD4	8-719-948-58	s PHOTO SENSOR GP2507B
Q1	8-729-100-67	s TRANSISTOR 2SC1623-L7
Q2	8-729-100-67	s TRANSISTOR 2SC1623-L7
Q3	8-729-100-67	s TRANSISTOR 2SC1623-L7
Q4	8-729-100-67	s TRANSISTOR 2SC1623-L7

SY-97AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6715-438-A	o MOUNTED CIRCUIT BOARD, SY-97AP
1pc	3-724-715-01	o PLATE (SY-97), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C4	1-163-037-11	s CERAMIC CHIP 0.022uF 10% 25V
C5	1-162-638-11	s CERAMIC CHIP 1 16V
C20	1-163-075-00	s CERAMIC CHIP 0.047uF 50V
C23	1-163-075-00	s CERAMIC CHIP 0.047uF 50V
C26	1-163-075-00	s CERAMIC CHIP 0.047uF 50V
C27	1-163-037-11	s CERAMIC CHIP 0.022uF 10% 25V
C28	1-163-075-00	s CERAMIC CHIP 0.047uF 50V
C29	1-163-075-00	s CERAMIC CHIP 0.047uF 50V
C71	1-164-004-11	s CERAMIC CHIP 0.1uF 10% 25V
C73	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V
C74	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V
C81	1-164-004-11	s CERAMIC CHIP 0.1uF 10% 25V
C92	1-126-629-11	s ELECT 27uF 20% 25V
C95	1-126-392-11	s ELECT 100uF 20% 6.3V
C97	1-126-390-11	s ELECT 22uF 20% 6.3V
C101	1-163-075-00	s CERAMIC CHIP 0.047uF 50V
C103	1-126-630-11	s ELECT 82uF 20% 25V
C105	1-124-943-11	s ELECT 39uF 20% 25V
C106	1-163-012-00	s CERAMIC CHIP 0.0018uF 10% 50V
C131	1-163-809-11	s CERAMIC CHIP 0.047uF 5% 25V
C135	1-124-943-11	s ELECT 39uF 20% 25V
C136	1-163-012-00	s CERAMIC CHIP 0.0018uF 10% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-566-397-21	o CONNECTOR, 14P, MALE
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-800-76	s DIODE 1SS226
D5	8-719-123-85	s DIODE 1SS304
D7	8-719-981-01	s DIODE ERA81-004
D8	8-719-981-01	s DIODE ERA81-004
IC1	8-752-814-54	s IC CXP80116-649Q
IC2	8-759-100-96	s IC UPC455862
IC3	8-759-981-65	s IC LM2903W
IC4	8-759-100-96	s IC UPC455862
IC5	8-759-100-96	s IC UPC455862
IC6	8-759-100-94	s IC UPC35862
IC7	8-759-981-65	s IC LM2903W
IC9	8-759-009-07	s IC MC14053BP
IC10	8-759-009-11	s IC MC140703P
IC11	8-759-008-82	s IC MC140138P
IC12	8-759-009-51	s IC MC145388P
IC14	8-759-009-07	s IC MC14053BP
IC15	8-759-981-65	s IC LM2903W
IC16	8-759-100-94	s IC UPC35862
IC17	8-759-981-65	s IC LM2903W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SV-97AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC18	8-759-190-94	s IC UPC35862
IC19	8-759-981-65	s IC LM2903M
IC22	8-759-209-69	s IC TC4511P
L1	1-424-055-11	s COIL, CHOKO 500uH
L2	1-424-055-11	s COIL, CHOKO 500uH
L4	1-408-789-21	s INDUCTOR, CHIP 100uH
L5	1-408-789-21	s INDUCTOR, CHIP 100uH
L6	1-421-801-11	s COIL, CHOKO 60uH
Q1	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q2	8-729-209-07	s TRANSISTOR 2SC4213B
Q3	8-729-209-01	s TRANSISTOR 2SR907
Q4	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q5	8-729-807-50	s TRANSISTOR 2SD1623
Q6	8-729-209-01	s TRANSISTOR 2SR907
Q7	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q8	8-729-807-50	s TRANSISTOR 2SD1623
Q9	8-729-901-46	s TRANSISTOR DTA1147K
Q10	8-729-905-18	s TRANSISTOR DTC144ED
R1	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R2	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R3	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R4	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R5	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R6	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R7	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R8	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R9	1-216-837-11	s METAL CHIP 1M 5% 1/16W
R10	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R11	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R12	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R13	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R14	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R15	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R16	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R17	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R21	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R22	1-216-851-11	s METAL CHIP 330K 5% 1/16W
R23	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R24	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R29	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R30	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R31	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R32	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R33	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R34	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R35	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R36	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R37	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R38	1-216-831-11	s METAL CHIP 6.8K 5% 1/16W
R39	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R40	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R43	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R44	1-216-857-11	s METAL CHIP 1M 5% 1/16W

(SV-97AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R45	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R46	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R48	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R50	1-216-854-11	s METAL CHIP 0-00M
R51	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R52	1-216-851-11	s METAL CHIP 330K 5% 1/16W
R53	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R54	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R55	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R56	1-216-857-11	s METAL CHIP 1M 5% 1/16W
R57	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R58	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R59	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R60	1-216-847-11	s METAL CHIP 150K 5% 1/16W
R61	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R62	1-216-857-11	s METAL CHIP 1M 5% 1/16W
R63	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R64	1-216-686-11	s METAL CHIP 30K 0.50K 1/10W
R65	1-216-667-11	s METAL CHIP 4.7K 0.50K 1/10W
R66	1-216-649-11	s METAL CHIP 82K 0.50K 1/10W
R67	1-216-846-11	s METAL CHIP 120K 5% 1/16W
R68	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R69	1-216-854-11	s METAL CHIP 560K 5% 1/16W
R70	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R71	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R72	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R74	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R75	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R76	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R81	1-216-835-11	s METAL CHIP 15K 5% 1/16W
R82	1-216-835-11	s METAL CHIP 15K 5% 1/16W
R83	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R84	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R85	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R87	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R88	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R89	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R90	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R91	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R92	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R93	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R101	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R102	1-216-699-11	s METAL CHIP 100K 0.50K 1/10W
R103	1-216-699-11	s METAL CHIP 100K 0.50K 1/10W
R104	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R105	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R106	1-216-840-11	s METAL CHIP 39K 5% 1/16W
R107	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R108	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R109	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R110	1-216-843-11	s METAL CHIP 68K 5% 1/16W
R111	1-216-836-11	s METAL CHIP 18K 5% 1/16W
R112	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R113	1-216-832-11	s METAL CHIP 8.2K 5% 1/16W
R114	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R115	1-216-839-11	s METAL CHIP 33K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SV-97AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R116	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R121	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R122	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R123	1-216-854-11	s METAL CHIP 560K 5% 1/16W
R124	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R125	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R131	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R132	1-216-699-11	s METAL CHIP 100K 0.50K 1/10W
R133	1-216-699-11	s METAL CHIP 100K 0.50K 1/10W
R134	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R135	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R136	1-216-840-11	s METAL CHIP 39K 5% 1/16W
R137	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R138	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R139	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R140	1-216-843-11	s METAL CHIP 68K 5% 1/16W
R141	1-216-836-11	s METAL CHIP 18K 5% 1/16W
R142	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R143	1-216-832-11	s METAL CHIP 8.2K 5% 1/16W
R144	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R145	1-216-839-11	s METAL CHIP 33K 5% 1/16W
R146	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R151	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R152	1-216-864-11	s METAL CHIP 0-0HM
R153	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R154	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R155	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R156	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R157	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R158	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R159	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R160	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R161	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R162	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R163	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R164	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R165	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R166	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R167	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R168	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R169	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R170	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R171	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R172	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R173	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R174	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R175	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R176	1-216-817-11	s METAL CHIP 470 5% 1/16W
R177	1-216-864-11	s METAL CHIP 0-0HM
R178	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R180	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R181	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R182	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R183	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R184	1-216-841-11	s METAL CHIP 47K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SV-97AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R185	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R186	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R187	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R188	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R189	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R190	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R191	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R192	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R193	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R194	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R195	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R196	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R197	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R198	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R199	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R301	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R302	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
RV1	1-230-871-11	s RES. ADJ. METAL 22K
RV2	1-230-871-11	s RES. ADJ. METAL 22K
RV3	1-230-875-21	s RES. ADJ. METAL 220K
RV4	1-230-875-21	s RES. ADJ. METAL 220K
RV5	1-230-875-21	s RES. ADJ. METAL 220K
RV6	1-230-873-11	s RES. ADJ. METAL 47K
RV7	1-230-875-21	s RES. ADJ. METAL 220K
X1	1-577-076-11	s 16, 000Hz

SW-220 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7520-307-A	o MOUNTED CIRCUIT BOARD, SW-220
CN2	1-506-475-11	o CONNECTOR, 10P. MALE
D1	8-719-911-19	s DIODE 1SS119
D2	8-719-911-19	s DIODE 1SS119
S1	1-554-355-00	s SWITCH, TOGGLE
S2	1-554-400-00	s SWITCH, TOGGLE
S3	1-554-400-00	s SWITCH, TOGGLE
S4	1-554-356-00	s SWITCH, TOGGLE
S5	1-553-856-00	s SWITCH, PUSH

SW-260A BOARD

Ref. No. or Q'ty	Part No.	SP Description
2pcs	1-625 088-12	o PRINTED CIRCUIT BOARD, SW-260A
CN2	1-565-149-11	o PIN, CONNECTOR (ANGLE) 2P
D1	8-719-800-76	s DIODE 1SS226
S1	1-570-984-11	s SWITCH, TOGGLE
S2	1-570-985-11	s SWITCH, TOGGLE
S3	1-570-985-11	s SWITCH, TOGGLE

SW-291 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-555-11	PRINTED CIRCUIT BOARD, SW-291
CN1	1-506-481-11	CONNECTOR, 2P, MALE
D1	8-719-902-27	DIODE EBR3402S
SW1	1-570-608-11	SWITCH, TOGGLE

SW-357B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-629-570-11	PRINTED CIRCUIT BOARD, SW-357B
CN1	1-506-484-11	CONNECTOR, 5P, MALE
CN2	1-506-482-11	CONNECTOR, 3P, MALE
R1	1-249-405-11	CARBON 100 5% 1/4W
S1	1-554-395-00	SWITCH, TOGGLE
S2	1-554-396-00	SWITCH, TOGGLE
S3	1-570-282-21	SWITCH, KEY BOARD

SY-117C BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6717-577-A	MOUNTED CIRCUIT BOARD, SY-117CP
1pc	3-724-714-01	PLATE (SY-117), ORNAMENTAL
1pc	3-724-753-01	RING
5pcs	3-729-051-01	SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	W 2, MIDDLE
C4	1-126-394-11	ELECT 10uF 20% 16V
C5	1-126-401-11	ELECT 1uF 20% 50V
C6	1-126-398-11	ELECT 4.7uF 20% 35V
C7	1-163-099-00	CERAMIC CHIP 18PF 5% 50V
C8	1-163-099-00	CERAMIC CHIP 18PF 5% 50V
C11	1-127-491-00	ELECT SOLID 20uF 20%
C12	1-126-390-11	ELECT 22uF 20% 6.3V
C13	1-162-995-11	CERAMIC CHIP 0.022uF 50V
C14	1-162-995-11	CERAMIC CHIP 0.022uF 50V
C15	1-162-995-11	CERAMIC CHIP 0.022uF 50V
C16	1-162-995-11	CERAMIC CHIP 0.022uF 50V
C17	1-162-995-11	CERAMIC CHIP 0.022uF 50V
C18	1-162-995-11	CERAMIC CHIP 0.022uF 50V
CN1	1-566-960-11	CONNECTOR, 50P, MALE
CN2	1-566-388-11	CONNECTOR, 2P, MALE
D1	8-719-123-85	DIODE 1SS304
IC1	8-752-815-64	IC CXPD0116-668Q
IC3	8-759-009-51	IC MC14538BP
IC4	8-759-940-45	IC S-8054HN-CB
IC5	8-759-925-80	IC SN74HC14NS
IC6	8-759-201-61	IC TC40B004F
IC7	8-759-927-46	IC SN74HC00NS
Q1	8-729-905-18	TRANSISTOR DTC144EU
Q2	8-729-905-12	TRANSISTOR DTC144EU
Q3	8-729-907-00	TRANSISTOR DTC114EU
Q4	8-729-907-00	TRANSISTOR DTC114EU
Q5	8-729-907-00	TRANSISTOR DTC114EU
Q6	8-729-905-18	TRANSISTOR DTC144EU
Q7	8-729-905-18	TRANSISTOR DTC144EU
Q8	8-729-117-32	TRANSISTOR 2SC4177-L6
Q9	8-729-907-00	TRANSISTOR DTC114EU
R1	1-216-845-11	METAL CHIP 100K 5% 1/16W
R2	1-216-821-11	METAL CHIP 1K 5% 1/16W
R3	1-216-821-11	METAL CHIP 1K 5% 1/16W
R4	1-216-821-11	METAL CHIP 1K 5% 1/16W
R5	1-216-821-11	METAL CHIP 1K 5% 1/16W
R6	1-216-845-11	METAL CHIP 100K 5% 1/16W
R7	1-216-821-11	METAL CHIP 1K 5% 1/16W
R8	1-216-841-11	METAL CHIP 47K 5% 1/16W
R9	1-216-841-11	METAL CHIP 47K 5% 1/16W
R10	1-216-845-11	METAL CHIP 100K 5% 1/16W
R11	1-216-821-11	METAL CHIP 1K 5% 1/16W
R12	1-216-845-11	METAL CHIP 100K 5% 1/16W
R13	1-216-821-11	METAL CHIP 1K 5% 1/16W
R14	1-216-821-11	METAL CHIP 1K 5% 1/16W
R15	1-216-845-11	METAL CHIP 100K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SY-117C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R16	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R17	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R18	1-216-864-11	s METAL CHIP 0-0HM
R29	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R30	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R31	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R32	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R33	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R34	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R35	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R36	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R37	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R38	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R39	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R40	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R43	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R44	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R45	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R46	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R47	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R48	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R49	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R50	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R51	1-218-303-11	s METAL CHIP 10K 1% 1/16W
R52	1-218-306-11	s METAL CHIP 100K 1% 1/16W
R53	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R54	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R55	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R56	1-216-813-11	s METAL CHIP 220 5% 1/16W
R57	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R58	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R59	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R60	1-216-682-11	s METAL CHIP 20K 0.50% 1/10W
R61	1-216-682-11	s METAL CHIP 20K 0.50% 1/10W
R62	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R63	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R64	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R65	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R66	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R67	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R68	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R69	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R70	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R71	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R72	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R73	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R74	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R75	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R76	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R77	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R78	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R79	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R80	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R81	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R82	1-216-821-11	s METAL CHIP 1K 5% 1/16W

(SY-117C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R83	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R84	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R85	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R86	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R87	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R88	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R89	1-216-813-11	s METAL CHIP 220 5% 1/16W
R90	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R91	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R92	1-216-813-11	s METAL CHIP 220 5% 1/16W
R93	1-216-813-11	s METAL CHIP 220 5% 1/16W
R94	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R95	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R96	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R97	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R98	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R100	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R102	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R103	1-216-819-11	s METAL CHIP 680 5% 1/16W
R104	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R105	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R106	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R107	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R201	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R203	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R205	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R207	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R211	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R213	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R214	1-216-864-11	s METAL CHIP 0-0HM
R215	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R217	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R219	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R221	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R223	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R225	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R226	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R227	1-216-849-11	s METAL CHIP 220K 5% 1/16W
S1	1-570-374-12	s SWITCH, SLIDE
X1	1-567-962-11	s VIBRATOR, CRYSTAL

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

TB-5 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6725-604-A	o MOUNTED CIRCUIT BOARD, TB-5
1pc	3-729-013-41	s SCREW (M1.4X3.5), WASHERHEAD (+P)
C1	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C3	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C11	1-163-011-11	s CERAMIC CHIP 0.0015uF 10% 50V
C13	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C27	1-163-139-00	s CERAMIC CHIP 820PF 5% 50V
C45	1-126-394-11	s ELECT 10uF 20% 16V
C46	1-126-394-11	s ELECT 10uF 20% 16V
C51	1-126-394-11	s ELECT 10uF 20% 16V
CN1	1-506-730-11	o CONNECTOR, 40P, MALE
CN2	1-566-526-11	s CONNECTOR, FPC (ZIF) 10P
CN3	1-566-339-11	s CONNECTOR, 10P, FEMALE
CN5	1-566-521-11	s CONNECTOR, FPC (ZIF) 5P
CN6	1-506-471-11	o CONNECTOR, 6P, MALE
CN7	1-566-340-11	s CONNECTOR, 6P, FEMALE
D21	8-719-123-85	s DIODE 1SS304
D51	8-719-106-88	s DIODE RD15W-B1
F81	1-543-309-12	s BEAD, FERRITE
F82	1-543-309-12	s BEAD, FERRITE
IC1	8-759-111-56	s IC UPC4572G2
IC2	8-759-906-53	s IC TL062CPS
IC21	8-759-209-15	s IC TC4S069P
IC22	8-759-009-07	s IC MC14053BP
IC23	8-759-111-56	s IC UPC4572G2
Q21	8-729-209-07	s TRANSISTOR 2SC4213B
Q22	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q23	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q51	8-729-106-68	s TRANSISTOR 2SD1615A-GP
Q52	8-729-109-44	s TRANSISTOR 2SK94
RV1	1-228-475-00	s RES. ADJ. METAL 20K
RV2	1-228-475-00	s RES. ADJ. METAL 20K
RV11	1-228-475-00	s RES. ADJ. METAL 20K
RV12	1-228-475-00	s RES. ADJ. METAL 20K

TC-48AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-372-A	o MOUNTED CIRCUIT BOARD, TC-48AP
2pcs	3-676-088-00	o SHAFT, KNUB
1pc	3-701-748-00	o CLAMP
2pcs	7-627-552-37	s SCREW, PRECISION +P 1.7X3
BT1	1-528-292-11	o BATTERY, SUPER LITHIUM
C1	1-163-037-11	s CERAMIC CHIP 0.022uF 10% 25V
C3	1-126-392-11	s ELECT 100uF 20% 6.3V
C4	1-126-392-11	s ELECT 100uF 20% 6.3V
C6	1-126-412-11	s ELECT 220uF 20% 4V
C7	1-126-402-11	s ELECT 2.2uF 20% 50V
C10	1-163-037-11	s CERAMIC CHIP 0.022uF 10% 25V
C103	1-126-403-11	s ELECT 3.3uF 20% 50V
C104	1-126-405-11	s ELECT 10uF 20% 50V
C105	1-126-405-11	s ELECT 10uF 20% 50V
C112	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C115	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C203	1-126-403-11	s ELECT 3.3uF 20% 50V
C204	1-126-405-11	s ELECT 10uF 20% 50V
C205	1-126-405-11	s ELECT 10uF 20% 50V
C212	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C215	1-135-157-21	s TANTALUM CHIP 10uF 10% 6.3V
C304	1-135-180-21	s TANTAL 3.3uF 10% 10V
C307	1-135-180-21	s TANTAL 3.3uF 10% 10V
C404	1-135-180-21	s TANTAL 3.3uF 10% 10V
C407	1-135-180-21	s TANTAL 3.3uF 10% 10V
C520	1-125-447-11	s DOUBLE LAYERS 1PARAD 5.5V
C530	1-163-095-00	s CERAMIC CHIP 12PP 5% 50V
C531	1-163-095-00	s CERAMIC CHIP 12PP 5% 50V
C566	1-126-392-11	s ELECT 100uF 20% 6.3V
C567	1-124-471-00	s ELECT 1000uF 20% 6.3V
C570	1-127-485-00	s ELECT (SOLID) 33uF 20% 6.3V
CN1	1-566-528-21	s CONNECTOR, FPC (ZIF) 12P
CN2	1-566-536-11	s CONNECTOR, FPC (ZIF) 20P
CN3	1-566-536-11	s CONNECTOR, FPC (ZIF) 20P
CN10	1-506-485-11	o CONNECTOR, 6P, MALE
CN11	1-506-481-11	o CONNECTOR, 2P, MALE
D101	8-719-800-76	s DIODE 1SS226
D102	8-719-800-76	s DIODE 1SS226
D103	8-719-941-23	s DIODE DA204U
D104	8-719-123-85	s DIODE 1SS304
D201	8-719-800-76	s DIODE 1SS226
D202	8-719-800-76	s DIODE 1SS226
D203	8-719-941-23	s DIODE DA204U
D301	8-719-941-23	s DIODE DA204U
D401	8-719-941-23	s DIODE DA204U
D508	8-719-958-72	s DIODE SB01-05CP
D511	8-719-941-86	s DIODE DAN202U
D514	8-719-941-86	s DIODE DAN202U
D515	8-719-941-86	s DIODE DAN202U
D522	8-719-902-27	s DIODE BPR3402S
D523	8-719-941-86	s DIODE DAN202U

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(TC-48AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D524	8-719-938-72 s	D1006 SB01-05CP
D525	8-719-938-72 s	D1006 SB01-05CP
D526	8-719-123-85 s	D1006 1SS304
D527	8-719-123-85 s	D1006 1SS304
D528	8-719-123-85 s	D1006 1SS304
D529	8-719-123-85 s	D1006 1SS304
D530	8-719-938-72 s	D1006 SB01-05CP
IC1	8-759-700-50 s	IC NJM396M
IC101	8-759-981-54 s	IC RC2041MD
IC102	8-759-981-54 s	IC RC2041MD
IC103	8-759-908-16 s	IC TL072CPS
IC201	8-759-981-54 s	IC RC2041MD
IC202	8-759-981-54 s	IC RC2041MD
IC203	8-759-908-16 s	IC TL072CPS
IC301	8-759-909-07 s	IC MC140538P
IC302	8-759-906-53 s	IC TL062CPS
IC303	8-759-908-16 s	IC TL072CPS
IC401	8-759-909-07 s	IC MC140538P
IC403	8-759-908-16 s	IC TL072CPS
IC501	8-759-944-79 s	IC CXD11320
IC502	8-759-146-73 s	IC CXD80420-502
IC503	8-752-810-17 s	IC CXP80116-617Q
IC504	8-759-112-06 s	IC UPT7805H
IC505	8-759-980-28 s	IC RH5A20CA
IC506	8-759-008-82 s	IC MC140138P
IC507	8-759-009-12 s	IC MC140718P
IC508	8-759-009-07 s	IC MC140538P
IC509	8-759-009-02 s	IC MC140468P
IC510	8-759-224-70 s	IC TC74HC4049AP
IC511	8-759-009-10 s	IC MC1406906P
IC512	8-759-008-82 s	IC MC140138P
IC513	8-759-009-51 s	IC MC145380F
IC514	8-759-209-15 s	IC TC45869P
IC515	8-752-330-59 s	IC CXK1011P
IC516	1-808-502-11 s	LCD MODULE LT4115
IC517	8-759-009-12 s	IC MC140718P
IC518	8-759-939-41 s	IC S-81230AG-8B
IC519	8-759-209-15 s	IC TC45869P
IC520	8-759-209-97 s	IC TC4581F
IC521	8-759-209-54 s	IC TC4501F
IC522	8-759-209-15 s	IC TC45869P
IC523	8-759-209-90 s	IC TC4571F
IC701	8-759-981-69 s	IC LM2904M
IC702	8-759-908-16 s	IC TL072CPS
IC703	8-759-939-41 s	IC S-81230AG-8B
L1	1-410-729-21 s	CHIP 1mH
L101	1-410-704-21 s	CHIP 2.2H
L102	1-410-704-21 s	CHIP 2.2H
L201	1-410-704-21 s	CHIP 2.2H
L202	1-410-704-21 s	CHIP 2.2H
PH1	1-808-252-11 s	PHOTO COUPLER (M-30)

(TC-48AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q101	8-729-271-31 s	TRANSISTOR 2SC2713G
Q102	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q103	8-729-905-18 s	TRANSISTOR UTC144EU
Q104	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q105	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q106	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q107	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q201	8-729-271-31 s	TRANSISTOR 2SC2713G
Q202	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q203	8-729-905-18 s	TRANSISTOR UTC144EU
Q204	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q205	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q206	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q207	8-729-117-32 s	TRANSISTOR 2SC4177-L6
Q501	8-729-905-18 s	TRANSISTOR UTC144EU
Q502	8-729-905-18 s	TRANSISTOR UTC144EU
Q503	8-729-907-00 s	TRANSISTOR UTC144EU
Q504	8-729-905-18 s	TRANSISTOR UTC144EU
Q509	8-729-905-18 s	TRANSISTOR UTC144EU
Q510	8-729-106-68 s	TRANSISTOR 2SD1615A-6P
Q511	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q512	8-729-905-18 s	TRANSISTOR UTC144EU
Q701	8-729-905-18 s	TRANSISTOR UTC144EU
Q702	8-729-117-32 s	TRANSISTOR 2SC4177-L6
R1	1-216-675-11 s	METAL CHIP 10K 0.50K 1/10W
R2	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R101	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R102	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R103	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R104	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R105	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R106	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R107	1-216-631-11 s	METAL CHIP 150 0.50K 1/10W
R108	1-216-631-11 s	METAL CHIP 150 0.50K 1/10W
R110	1-216-657-11 s	METAL CHIP 4.7K 0.50K 1/10W
R111	1-216-699-11 s	METAL CHIP 100K 0.50K 1/10W
R112	1-216-699-11 s	METAL CHIP 100K 0.50K 1/10W
R113	1-216-638-11 s	METAL CHIP 300 0.50K 1/10W
R114	1-216-687-11 s	METAL CHIP 4.7K 0.50K 1/10W
R115	1-216-687-11 s	METAL CHIP 4.7K 0.50K 1/10W
R116	1-216-687-11 s	METAL CHIP 4.7K 0.50K 1/10W
R117	1-216-687-11 s	METAL CHIP 4.7K 0.50K 1/10W
R118	1-216-687-11 s	METAL CHIP 4.7K 0.50K 1/10W
R119	1-216-687-11 s	METAL CHIP 4.7K 0.50K 1/10W
R120	1-216-685-11 s	METAL CHIP 3.9K 0.50K 1/10W
R121	1-216-655-11 s	METAL CHIP 1.5K 0.50K 1/10W
R123	1-216-687-11 s	METAL CHIP 4.7K 0.50K 1/10W
R125	1-216-643-11 s	METAL CHIP 470 0.50K 1/10W
R126	1-216-681-11 s	METAL CHIP 18K 0.50K 1/10W
R128	1-216-675-11 s	METAL CHIP 10K 0.50K 1/10K
R129	1-216-682-11 s	METAL CHIP 20K 0.50K 1/10W
R130	1-216-675-11 s	METAL CHIP 10K 0.50K 1/10W
R131	1-216-659-11 s	METAL CHIP 2.2K 0.50K 1/10W
R132	1-216-661-11 s	METAL CHIP 2.7K 0.50K 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(TC-48AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R133	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R135	1-216-643-11	s METAL CHIP 470 0.50% 1/10W
R136	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R137	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R138	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R139	1-216-682-11	s METAL CHIP 20K 0.50% 1/10W
R140	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R141	1-216-677-11	s METAL CHIP 12K 0.50% 1/10W
R143	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R201	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R202	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R203	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R204	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R205	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R206	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R207	1-216-631-11	s METAL CHIP 150 0.50% 1/10W
R208	1-216-631-11	s METAL CHIP 150 0.50% 1/10W
R210	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R211	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R212	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R213	1-216-638-11	s METAL CHIP 300 0.50% 1/10W
R214	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R215	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R216	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R217	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R218	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R219	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R220	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R221	1-216-655-11	s METAL CHIP 1.5K 0.50% 1/10W
R223	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R225	1-216-643-11	s METAL CHIP 470 0.50% 1/10W
R226	1-216-681-11	s METAL CHIP 18K 0.50% 1/10W
R228	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R229	1-216-682-11	s METAL CHIP 20K 0.50% 1/10W
R230	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R231	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R232	1-216-661-11	s METAL CHIP 2.7K 0.50% 1/10W
R233	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R235	1-216-643-11	s METAL CHIP 470 0.50% 1/10W
R236	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R237	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R238	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R239	1-216-682-11	s METAL CHIP 20K 0.50% 1/10W
R240	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R241	1-216-677-11	s METAL CHIP 12K 0.50% 1/10W
R243	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R303	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R306	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R310	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R313	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R403	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R406	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R410	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R413	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R505	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W

(TC-48AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R507	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R515	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R521	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R523	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R542	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R543	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R605	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R611	1-249-397-11	s CARBON 22 5K 1/4W
R612	1-249-397-11	s CARBON 22 5K 1/4W
R617	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R618	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R519	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R623	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R626	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R629	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R630	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R631	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R632	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R639	1-249-397-11	s CARBON 22 5K 1/4W
R641	1-249-393-11	s CARBON 10 5K 1/4W
R642	1-249-393-11	s CARBON 10 5K 1/4W
R644	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R653	1-247-895-00	s CARBON 470K 5K 1/4W
R701	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R703	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R708	1-216-668-11	s METAL CHIP 5.1K 0.50% 1/10W
R709	1-216-669-11	s METAL CHIP 5.6K 0.50% 1/10W
R711	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R712	1-216-681-11	s METAL CHIP 18K 0.50% 1/10W
R719	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
RV101	1-230-337-11	s RES. VAR. CARBON 10K
RV201	1-230-337-11	s RES. VAR. CARBON 10K
RV301	1-230-871-11	s RES. ADJ. METAL 22K
RV302	1-230-871-11	s RES. ADJ. METAL 22K
RV401	1-230-871-11	s RES. ADJ. METAL 22K
RV402	1-230-871-11	s RES. ADJ. METAL 22K
RV701	1-230-874-11	s RES. ADJ. METAL 100K
RV702	1-230-869-11	s RES. ADJ. METAL 4.7K
S101	1-571-087-11	s SWITCH, SLIDE
S102	1-570-848-11	s SWITCH, SLIDE
S103	1-571-275-11	s SWITCH, SLIDE
S201	1-571-087-11	s SWITCH, SLIDE
S202	1-570-848-11	s SWITCH, SLIDE
S203	1-571-275-11	s SWITCH, SLIDE
S501	1-570-834-11	s SWITCH, SLIDE
S502	1-570-834-11	s SWITCH, SLIDE
S503	1-570-472-11	s SWITCH, KEY BOARD
S504	1-570-472-11	s SWITCH, KEY BOARD
S505	1-570-472-11	s SWITCH, KEY BOARD
S506	1-570-472-11	s SWITCH, KEY BOARD
S508	1-570-834-11	s SWITCH, SLIDE
S509	1-570-866-11	s SWITCH, SLIDE
S510	1-570-860-11	s SWITCH, SLIDE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(TC-48AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
SS11	1-571-275-11 s	SWITCH, SLIDE
SS13	1-570-472-11 s	SWITCH, KEY BOARD
SS14	1-570-860-11 s	SWITCH, SLIDE
SS15	1-571-273-11 s	SWITCH, ROTARY
SS16	1-571-273-11 s	SWITCH, ROTARY
SS17	1-571-275-11 s	SWITCH, SLIDE
SS18	1-571-275-11 s	SWITCH, SLIDE
S701	1-570-855-11 s	SWITCH, SLIDE
X501	1-567-867-11 s	14.500MHz
X502	1-567-812-11 s	CERAMIC 12.288MHz
X503	1-578-741-11 s	OSCILLATOR, CRYSTAL
X504	1-577-076-11 s	16.000MHz

VA-104 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-147-A o	MOUNTED CIRCUIT BOARD, VA-104
2pcs	1-568-613-11 o	CONNECTOR, FEMALE, 2P
1pc	3-166-513-01 o	SHEET (VA), CONDUCTIVE
1pc	3-166-514-01 o	PLATE (VA), SHIELD
3pcs	3-621-124-00 o	SPACER
1pc	3-724-711-02 o	PLATE (VA-62), ORNAMENTAL
1pc	3-724-753-01 o	RING
5pcs	3-729-061-01 s	SCREW (M2X4.5) (TYPE 1)
2pcs	7-623-952-21 s	WASHER 2.0, FIBER
1pc	7-688-001-01 s	W 2, MIDDLE
1pc	7-688-001-12 s	W 2, MIDDLE
C1	1-135-210-95 s	TANTALUM 4.7uF 10% 10V
C10	1-131-395-00 s	TANTALUM 100uF 10% 3.15V
C12	1-126-320-11 s	ELECT 10uF 20% 16V
C16	1-163-241-11 s	CERAMIC CHIP 39PF 5% 50V
C21	1-135-177-95 s	TANTALUM 1uF 10% 25V
C24	1-135-210-95 s	TANTALUM 4.7uF 10% 10V
C33	1-131-395-00 s	TANTALUM 100uF 10% 3.15V
C35	1-126-320-11 s	ELECT 10uF 20% 16V
C39	1-135-210-11 s	TANTALUM 4.7uF 10% 10V
C45	1-135-177-95 s	TANTALUM 1uF 10% 25V
C48	1-135-210-95 s	TANTALUM 4.7uF 10% 10V
C57	1-131-395-00 s	TANTALUM 100uF 10% 3.15V
C59	1-126-320-11 s	ELECT 10uF 20% 16V
C69	1-135-177-95 s	TANTALUM 1uF 10% 25V
C90	1-163-268-91 s	CERAMIC CHIP 510P
C91	1-163-264-91 s	CERAMIC CHIP 360P
C92	1-163-258-91 s	CERAMIC CHIP 510P
C93	1-135-177-21 s	TANTALUM 1uF 10% 25V
C114	1-163-809-11 s	CERAMIC CHIP 0.047uF 5% 25V
CN1	1-366-960-11 o	CONNECTOR, 50P, MALE
CV1	1-141-370-11 s	CAP, CHIP TRIMMER 50PF
CV2	1-141-370-11 s	CAP, CHIP TRIMMER 50PF
CV3	1-141-370-11 s	CAP, CHIP TRIMMER 50PF
D1	8-719-104-22 s	DIODE 1SS123
D2	8-719-800-76 s	DIODE 1SS226
D3	8-719-948-47 s	DIODE HSM88AS
D5	8-719-800-76 s	DIODE 1SS226
D6	8-719-948-47 s	DIODE HSM88AS
D7	8-719-800-76 s	DIODE 1SS226
D9	8-719-800-76 s	DIODE 1SS226
D10	8-719-948-47 s	DIODE HSM88AS
D14	8-719-948-47 s	DIODE HSM88AS
D15	8-719-948-47 s	DIODE HSM88AS
D16	8-719-948-47 s	DIODE HSM88AS
D17	8-719-104-31 s	DIODE 1S2838
DL1	1-415-754-11 s	DELAY LINE
FL1	1-409-427-11 s	FILTER, TRAP 14.3MHz
FL2	1-409-427-11 s	FILTER, TRAP 14.3MHz
FL3	1-409-427-11 s	FILTER, TRAP 14.3MHz

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VA-104 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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IC1	8-759-988-42	s IC AD707JR
IC2	1-807-415-11	s IC BM-1210
IC3	1-808-806-11	s IC BM-1262
IC4	8-759-906-54	s IC TL064CNS
IC5	8-759-988-42	s IC AD707JR

IC6	1-807-415-11	s IC BM-1210
IC7	1-808-806-11	s IC BM-1262
IC8	8-759-988-42	s IC AD707JR
IC9	1-807-415-11	s IC BM-1210
IC10	1-808-806-11	s IC BM-1262

IC12	8-759-009-07	s IC MC14053BP
IC13	8-759-906-53	s IC TL062CPS
IC15	1-809-026-11	s IC BM-1263
IC16	8-759-209-57	s IC TC4569P

Q1	8-729-403-33	s TRANSISTOR XN6534
Q2	8-729-403-30	s TRANSISTOR XN6435
Q3	8-729-403-30	s TRANSISTOR XN6435
Q4	8-729-403-30	s TRANSISTOR XN6435
Q5	8-729-109-44	s TRANSISTOR 2SK94

Q6	8-729-109-44	s TRANSISTOR 2SK94
Q7	8-729-109-44	s TRANSISTOR 2SK94
Q8	8-729-109-44	s TRANSISTOR 2SK94
Q9	8-729-109-44	s TRANSISTOR 2SK94
Q10	8-729-109-44	s TRANSISTOR 2SK94

Q11	8-729-175-72	s TRANSISTOR 2SC2757
Q12	8-729-122-63	s TRANSISTOR 2SA1226
Q13	8-729-403-30	s TRANSISTOR XN6435
Q14	8-729-403-30	s TRANSISTOR XN6435
Q15	8-729-403-30	s TRANSISTOR XN6435

Q16	8-729-109-44	s TRANSISTOR 2SK94
Q17	8-729-109-44	s TRANSISTOR 2SK94
Q18	8-729-109-44	s TRANSISTOR 2SK94
Q19	8-729-109-44	s TRANSISTOR 2SK94
Q20	8-729-109-44	s TRANSISTOR 2SK94

Q21	8-729-109-44	s TRANSISTOR 2SK94
Q22	8-729-175-72	s TRANSISTOR 2SC2757
Q23	8-729-403-33	s TRANSISTOR XN6534
Q24	8-729-403-30	s TRANSISTOR XN6435
Q25	8-729-403-30	s TRANSISTOR XN6435

Q26	8-729-403-30	s TRANSISTOR XN6435
Q27	8-729-109-44	s TRANSISTOR 2SK94
Q28	8-729-109-44	s TRANSISTOR 2SK94
Q29	8-729-109-44	s TRANSISTOR 2SK94
Q30	8-729-109-44	s TRANSISTOR 2SK94

Q31	8-729-109-44	s TRANSISTOR 2SK94
Q32	8-729-109-44	s TRANSISTOR 2SK94
Q33	8-729-175-72	s TRANSISTOR 2SC2757
Q34	8-729-216-22	s TRANSISTOR 2SA1162
Q35	8-729-216-22	s TRANSISTOR 2SA1162

Q36	8-729-100-66	s TRANSISTOR 2SC1623
Q44	8-729-175-72	s TRANSISTOR 2SC2757
Q45	8-729-100-66	s TRANSISTOR 2SC1623
Q48	8-729-109-44	s TRANSISTOR 2SK94
Q49	8-729-216-22	s TRANSISTOR 2SA1162

(VA-104 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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Q50	8-729-216-22	s TRANSISTOR 2SA1162
Q51	8-729-102-68	s TRANSISTOR 2SC2757
Q52	8-729-102-68	s TRANSISTOR 2SC2757
Q53	8-729-102-68	s TRANSISTOR 2SC2757

R1	1-216-649-11	s METAL CHIP 820 0.50% 1/10W
R4	1-216-655-91	s METAL CHIP 1.5K 1% 1/10W
R5	1-216-643-91	s METAL CHIP 470 1% 1/10W
R6	1-216-691-11	s METAL CHIP 47K 0.50% 1/10W
R8	1-216-664-91	s METAL CHIP 3.6K 1% 1/10W

R9	1-216-661-91	s METAL CHIP 2.7K 1% 1/10W
R11	1-216-670-91	s METAL CHIP 6.2K 1% 1/10W
R16	1-216-627-91	s METAL CHIP 100 0.50% 1/10W
R17	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R18	1-216-635-11	s METAL CHIP 220 0.50% 1/10W

R19	1-216-658-11	s METAL CHIP 2K 0.50% 1/10W
R21	1-216-663-11	s METAL CHIP 3.3K 0.50% 1/10W
R22	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R24	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W

R34	1-216-645-11	s METAL CHIP 560 0.50% 1/10W
R39	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R44	1-216-675-11	s METAL CHIP 10K 0.50% 1/10W
R45	1-216-649-11	s METAL CHIP 820 0.50% 1/10W
R47	1-216-639-91	s METAL CHIP 330 1% 1/10W

R48	1-216-639-91	s METAL CHIP 330 1% 1/10W
R49	1-216-642-91	s METAL CHIP 43K 1% 1/10W
R50	1-216-691-11	s METAL CHIP 10K 0.50% 1/10W
R51	1-216-655-91	s METAL CHIP 1.5K 1% 1/10W
R52	1-216-655-91	s METAL CHIP 1.5K 1% 1/10W

R53	1-216-663-91	s METAL CHIP 3.3K 1% 1/10W
R55	1-216-670-91	s METAL CHIP 6.2K 1% 1/10W
R60	1-216-627-91	s METAL CHIP 100 0.50% 1/10W
R61	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R62	1-216-635-11	s METAL CHIP 220 0.50% 1/10W

R63	1-216-658-11	s METAL CHIP 2K 0.50% 1/10W
R65	1-216-663-11	s METAL CHIP 3.3K 0.50% 1/10W
R66	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R68	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R73	1-216-645-11	s METAL CHIP 560 0.50% 1/10W

R85	1-216-699-11	s METAL CHIP 100K 0.50% 1/10W
R90	1-216-675-11	s METAL CHIP 10K 1% 1/10W
R91	1-216-649-11	s METAL CHIP 820 0.50% 1/10W
R94	1-216-655-91	s METAL CHIP 1.5K 1% 1/10W
R95	1-216-639-91	s METAL CHIP 330 1% 1/10W

R96	1-216-691-11	s METAL CHIP 47K 0.50% 1/10W
R98	1-216-662-91	s METAL CHIP 3K 1% 1/10W
R99	1-216-664-91	s METAL CHIP 3.6K 1% 1/10W
R101	1-216-670-91	s METAL CHIP 6.2K 1% 1/10W
R106	1-216-627-91	s METAL CHIP 100 0.50% 1/10W

R107	1-216-665-11	s METAL CHIP 3.9K 0.50% 1/10W
R108	1-216-635-11	s METAL CHIP 220 0.50% 1/10W
R109	1-216-658-11	s METAL CHIP 2K 0.50% 1/10W
R111	1-216-663-11	s METAL CHIP 3.3K 0.50% 1/10W
R112	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VA-104 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R114	1-216-671-11	s METAL CHIP 6.8K 0.50K 1/10W
R126	1-216-645-11	s METAL CHIP 560 0.50K 1/10W
R131	1-216-689-11	s METAL CHIP 100K 0.50K 1/10W
R136	1-216-675-11	s METAL CHIP 10K 0.50K 1/10W
R173	1-216-603-11	s METAL CHIP 10 0.50K 1/10W
R174	1-216-603-11	s METAL CHIP 10 0.50K 1/10W
R175	1-216-603-11	s METAL CHIP 10 0.50K 1/10W
R181	1-216-689-11	s METAL CHIP 39K 0.50K 1/10W
R182	1-216-689-11	s METAL CHIP 39K 0.50K 1/10W
R183	1-216-689-11	s METAL CHIP 39K 0.50K 1/10W
R187	1-216-639-91	s METAL CHIP 1.5K 1K 1/10W
R191	1-218-757-91	s METAL CHIP 160K 0.50K 1/10W
R192	1-218-762-91	s METAL CHIP 270K 0.50K 1/10W
R193	1-216-699-91	s METAL CHIP 100K 1K 1/10W
RV1	1-228-472-00	s RES. ADJ. METAL 2K
RV2	1-237-037-11	s RES. ADJ. METAL 20K
RV3	1-237-036-11	s RES. ADJ. METAL 10K
RV4	1-228-475-00	s RES. ADJ. METAL 20K
RV5	1-228-472-00	s RES. ADJ. METAL 2K
RV6	1-237-037-11	s RES. ADJ. METAL 20K
RV7	1-237-036-11	s RES. ADJ. METAL 10K
RV8	1-228-475-00	s RES. ADJ. METAL 20K
RV9	1-228-472-00	s RES. ADJ. METAL 2K
RV10	1-237-037-11	s RES. ADJ. METAL 20K
RV11	1-237-036-11	s RES. ADJ. METAL 10K
RV12	1-228-475-00	s RES. ADJ. METAL 20K
RV15	1-237-034-11	s RES. ADJ. METAL 2K
RV16	1-237-034-11	s RES. ADJ. METAL 2K
RV17	1-237-034-11	s RES. ADJ. METAL 2K
RV18	1-237-036-11	s RES. ADJ. METAL 10K
RV19	1-237-036-11	s RES. ADJ. METAL 10K
RV20	1-237-036-11	s RES. ADJ. METAL 10K
RV21	1-237-037-11	s RES. ADJ. METAL 20K
RV22	1-237-037-11	s RES. ADJ. METAL 20K
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-572-446-21	s SWITCH, ROTARY

VDA-11P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6711-993-A	o MOUNTED CIRCUIT BOARD, VDA-11P
1pc	3-724-707-01	o PLATE (VDA-11). ORNAMENTAL
1pc	3-724-753-01	o KING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-126-391-11	s ELECT 47uF 20K 6.3V
C2	1-126-391-11	s ELECT 47uF 20K 6.3V
C6	1-126-390-11	s ELECT 22uF 20K 6.3V
C8	1-126-390-11	s ELECT 22uF 20K 6.3V
C16	1-126-392-11	s ELECT 100uF 20K 6.3V
C110	1-126-391-11	s ELECT 47uF 20K 6.3V
C116	1-126-392-11	s ELECT 100uF 20K 6.3V
C201	1-126-390-11	s ELECT 22uF 20K 6.3V
C202	1-163-120-00	s CERAMIC CHIP 130PF 5K 50V
C203	1-135-164-21	s TANTALUM CHIP 22uF 10K 20V
C205	1-126-391-11	s ELECT 47uF 20K 6.3V
C207	1-126-390-11	s ELECT 22uF 20K 6.3V
C209	1-126-390-11	s ELECT 22uF 20K 6.3V
C212	1-163-120-00	s CERAMIC CHIP 130PF 5K 50V
C214	1-126-390-11	s ELECT 22uF 20K 6.3V
C219	1-126-391-11	s ELECT 47uF 20K 6.3V
C220	1-135-149-21	s TANTALUM CHIP 2.2uF 10K 10V
C221	1-126-390-11	s ELECT 22uF 20K 6.3V
C225	1-163-111-00	s CERAMIC CHIP 56PF 5K 50V
C226	1-163-111-00	s CERAMIC CHIP 56PF 5K 50V
C227	1-135-164-21	s TANTALUM CHIP 22uF 10K 20V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-566-388-11	o CONNECTOR, 2P, MALE
CN1/2	1-565-413-11	o PLUG, SHORTING
CV1	1-141-311-11	s TRIMMER 20PF
CV2	1-141-311-11	s TRIMMER 20PF
CV3	1-141-311-11	s TRIMMER 20PF
CV4	1-141-311-11	s TRIMMER 20PF
CV11	1-141-311-11	s TRIMMER 20PF
CV12	1-141-311-11	s TRIMMER 20PF
CV13	1-141-311-11	s TRIMMER 20PF
CV14	1-141-311-11	s TRIMMER 20PF
D201	8-719-123-85	s DIODE 1SS304
D301	8-719-105-82	s DIODE R05, 1M-B2
FL1	1-236-021-11	s FILTER, LOW PASS (CHIP)
FL2	1-236-126-12	s FILTER, LOW PASS
FL202	1-236-621-11	s FILTER, LOW PASS
FL203	1-236-621-11	s FILTER, LOW PASS
IC1	8-759-209-15	s IC TC4S069P
IC2	8-741-152-41	s IC SR1524-21
IC3	8-759-209-15	s IC TC4S069P
IC101	8-759-209-15	s IC TC4S069P
IC201	8-741-152-32	s IC SR1523-03
IC301	8-759-230-99	s IC TC74HC4053AF

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L1	1-408-789-21	s INDUCTOR, CHIP 100uH
L2	1-408-789-21	s INDUCTOR, CHIP 100uH
L3	1-408-777-00	s INDUCTOR, CHIP 10uH
L4	1-410-713-31	s INDUCTOR, CHIP 47uH
L101	1-408-789-21	s INDUCTOR, CHIP 100uH
L103	1-410-725-31	s INDUCTOR, CHIP 470uH
L104	1-410-725-31	s INDUCTOR, CHIP 470uH
L105	1-408-789-21	s INDUCTOR, CHIP 100uH
L106	1-408-789-21	s INDUCTOR, CHIP 100uH
L202	1-408-789-21	s INDUCTOR, CHIP 100uH
L203	1-410-713-31	s INDUCTOR, CHIP 47uH
L204	1-410-713-31	s INDUCTOR, CHIP 47uH
L205	1-408-789-21	s INDUCTOR, CHIP 100uH
L206	1-410-385-11	s INDUCTOR, CHIP 22uH
L207	1-412-018-11	s COIL, VAR 5.6uH
Q1	8-729-905-18	s TRANSISTOR UTC144EU
Q2	8-729-905-18	s TRANSISTOR UTC144EU
Q3	8-729-122-63	s TRANSISTOR 2SA1226
Q4	8-729-122-63	s TRANSISTOR 2SA1226
Q5	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q6	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q7	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q8	8-729-117-72	s TRANSISTOR 2SC4178
Q9	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q10	8-729-905-18	s TRANSISTOR UTC144EU
Q11	8-729-117-72	s TRANSISTOR 2SC4178
Q12	8-729-905-12	s TRANSISTOR UTA144EU
Q101	8-729-117-72	s TRANSISTOR 2SC4178
Q106	8-729-117-72	s TRANSISTOR 2SC4178
Q107	8-729-117-72	s TRANSISTOR 2SC4178
Q108	8-729-109-44	s TRANSISTOR 2SK94
Q109	8-729-109-44	s TRANSISTOR 2SK94
Q110	8-729-109-44	s TRANSISTOR 2SK94
Q111	8-729-109-44	s TRANSISTOR 2SK94
Q112	8-729-117-72	s TRANSISTOR 2SC4178
Q114	8-729-117-72	s TRANSISTOR 2SC4178
Q115	8-729-117-72	s TRANSISTOR 2SC4178
Q116	8-729-117-72	s TRANSISTOR 2SC4178
Q117	8-729-905-12	s TRANSISTOR UTA144EU
Q118	8-729-905-12	s TRANSISTOR UTA144EU
Q120	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q121	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q122	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q123	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q131	8-729-109-44	s TRANSISTOR 2SK94
Q132	8-729-109-44	s TRANSISTOR 2SK94
Q133	8-729-109-44	s TRANSISTOR 2SK94
Q134	8-729-109-44	s TRANSISTOR 2SK94
Q153	8-729-209-07	s TRANSISTOR 2SC4213B
Q154	8-729-209-07	s TRANSISTOR 2SC4213B
Q155	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q156	8-729-117-72	s TRANSISTOR 2SC4178
Q157	8-729-117-72	s TRANSISTOR 2SC4178
Q158	8-729-109-44	s TRANSISTOR 2SK94
Q159	8-729-109-44	s TRANSISTOR 2SK94

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q160	8-729-109-44	s TRANSISTOR 2SK94
Q161	8-729-109-44	s TRANSISTOR 2SK94
Q201	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q202	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q203	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q204	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q205	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q206	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q207	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q208	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q209	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q210	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q211	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q301	8-729-101-07	s TRANSISTOR 2SB798-UL
Q303	8-729-807-50	s TRANSISTOR 2SO1823
R1	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R2	1-218-293-11	s METAL CHIP 24K 5% 1/16W
R3	1-216-994-11	s METAL CHIP 13K 5% 1/16W
R4	1-216-840-11	s METAL CHIP 39K 5% 1/16W
R5	1-216-668-11	s METAL CHIP 5.1K 0.50% 1/10W
R6	1-216-660-11	s METAL CHIP 16K 0.50% 1/10W
R7	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R8	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R9	1-216-817-11	s METAL CHIP 470 5% 1/16W
R10	1-216-828-11	s METAL CHIP 3.9K 5% 1/16W
R12	1-218-312-11	s METAL CHIP 470 1% 1/16W
R13	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R14	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R15	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R16	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R17	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R18	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R19	1-216-826-11	s METAL CHIP 2.7K 5% 1/16W
R20	1-216-824-11	s METAL CHIP 1.8K 5% 1/16W
R21	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R22	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R23	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R24	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R25	1-216-838-11	s METAL CHIP 27K 5% 1/16W
R26	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R27	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R28	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R29	1-216-839-11	s METAL CHIP 33K 5% 1/16W
R30	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R31	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R32	1-216-846-11	s METAL CHIP 120K 5% 1/16W
R33	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R34	1-216-865-11	s METAL CHIP 3K 1/16W
R45	1-216-809-11	s METAL CHIP 100 5% 1/16W
R101	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R102	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R103	1-216-817-11	s METAL CHIP 470 5% 1/16W
R104	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R105	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R106	1-216-821-11	s METAL CHIP 1K 5% 1/16W

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R108	1-216-817-11	s METAL CHIP 470 5% 1/16W
R109	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R110	1-216-817-11	s METAL CHIP 470 5% 1/16W
R111	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R112	1-216-817-11	s METAL CHIP 470 5% 1/16W
R113	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R114	1-216-817-11	s METAL CHIP 470 5% 1/16W
R115	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R116	1-216-817-11	s METAL CHIP 470 5% 1/16W
R117	1-216-809-11	s METAL CHIP 100 5% 1/16W
R118	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R119	1-216-815-11	s METAL CHIP 330 5% 1/16W
R120	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R121	1-216-840-11	s METAL CHIP 39K 5% 1/16W
R122	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R123	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R124	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R125	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R126	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R127	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R128	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R129	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R130	1-216-809-11	s METAL CHIP 100 5% 1/16W
R131	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R132	1-216-289-11	s METAL CHIP 510 5% 1/16W
R133	1-216-289-11	s METAL CHIP 510 5% 1/16W
R134	1-216-288-11	s METAL CHIP 300 5% 1/16W
R136	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R138	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R140	1-216-303-11	s METAL CHIP 10K 1% 1/16W
R141	1-216-303-11	s METAL CHIP 10K 1% 1/16W
R142	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R143	1-216-822-11	s METAL CHIP 1.2K 5% 1/16W
R144	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R145	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R146	1-216-814-11	s METAL CHIP 270 5% 1/16W
R147	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R148	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R149	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R150	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R151	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R160	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R161	1-216-818-11	s METAL CHIP 560 5% 1/16W
R162	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R163	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R164	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R165	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R166	1-216-817-11	s METAL CHIP 470 5% 1/16W
R167	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R168	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R169	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R170	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R171	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R172	1-216-837-11	s METAL CHIP 22K 5% 1/16W

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R173	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R174	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R180	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R181	1-216-797-11	s METAL CHIP 10 5% 1/16W
R182	1-216-826-11	s METAL CHIP 2.7K 5% 1/16W
R183	1-216-797-11	s METAL CHIP 10 5% 1/16W
R184	1-216-826-11	s METAL CHIP 2.7K 5% 1/16W
R185	1-216-864-11	s METAL CHIP 0-0HM
R186	1-216-789-11	s METAL CHIP 2.2 5% 1/16W
R187	1-216-789-11	s METAL CHIP 2.2 5% 1/16W
R188	1-216-789-11	s METAL CHIP 2.2 5% 1/16W
R189	1-216-789-11	s METAL CHIP 2.2 5% 1/16W
R190	1-216-864-11	s METAL CHIP 0-0HM
R191	1-216-816-11	s METAL CHIP 390 5% 1/16W
R201	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R202	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R203	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R204	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R205	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R206	1-216-818-11	s METAL CHIP 560 5% 1/16W
R207	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R208	1-216-820-11	s METAL CHIP 820 5% 1/16W
R209	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R210	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R211	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R212	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R213	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R214	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R215	1-216-817-11	s METAL CHIP 470 5% 1/16W
R216	1-216-836-11	s METAL CHIP 18K 5% 1/16W
R217	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R218	1-216-818-11	s METAL CHIP 560 5% 1/16W
R219	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R221	1-216-864-11	s METAL CHIP 0-0HM
R222	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R223	1-216-820-11	s METAL CHIP 820 5% 1/16W
R224	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R225	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R227	1-216-840-11	s METAL CHIP 39K 5% 1/16W
R228	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R229	1-216-303-11	s METAL CHIP 10K 1% 1/16W
R230	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R231	1-216-834-11	s METAL CHIP 12K 5% 1/16W
R232	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R233	1-216-845-11	s METAL CHIP 100K 5% 1/16W
R234	1-216-832-11	s METAL CHIP 8.2K 5% 1/16W
R236	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W
R237	1-216-814-11	s METAL CHIP 270 5% 1/16W
R238	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R239	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R240	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R241	1-216-791-11	s METAL CHIP 3.3 5% 1/16W
R242	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R243	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R244	1-216-830-11	s METAL CHIP 5.6K 5% 1/16W

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R245	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R301	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R302	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R304	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R305	1-216-826-11	s METAL CHIP 2.7K 5% 1/16W
RV1	1-237-036-11	s RES. ADJ. METAL 10K
RV2	1-237-036-11	s RES. ADJ. METAL 10K
RV3	1-237-034-11	s RES. ADJ. METAL 2K
RV4	1-237-039-11	s RES. ADJ. METAL 100K
RV5	1-237-034-11	s RES. ADJ. METAL 2K
RV6	1-237-035-11	s RES. ADJ. METAL 5K
RV7	1-237-037-11	s RES. ADJ. METAL 20K
RV101	1-237-035-11	s RES. ADJ. METAL 5K
RV102	1-237-035-11	s RES. ADJ. METAL 5K
RV103	1-237-035-11	s RES. ADJ. METAL 5K
RV104	1-237-035-11	s RES. ADJ. METAL 5K
RV105	1-237-032-11	s RES. ADJ. METAL 500
RV107	1-230-867-11	s RES. ADJ. METAL 1K
RV108	1-230-868-11	s RES. ADJ. METAL 2.2K
RV201	1-237-035-11	s RES. ADJ. METAL 5K
RV202	1-237-035-11	s RES. ADJ. METAL 5K
RV203	1-237-037-11	s RES. ADJ. METAL 20K
RV204	1-230-871-11	s RES. ADJ. METAL 22K
RV205	1-237-033-11	s RES. ADJ. METAL 1K
RV206	1-237-033-11	s RES. ADJ. METAL 1K
RV208	1-230-871-11	s RES. ADJ. METAL 22K
RV209	1-237-035-11	s RES. ADJ. METAL 5K
RV210	1-237-035-11	s RES. ADJ. METAL 5K
RV211	1-237-034-11	s RES. ADJ. METAL 2K
RV212	1-237-036-11	s RES. ADJ. METAL 10K
RV213	1-237-036-11	s RES. ADJ. METAL 10K
TH1	1-808-862-21	s THERMISTOR (CHIP)

VF-32 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	ΔA-7513-642-8	s MOUNTED CIRCUIT BOARD, VF-32
C2	1-135-125-21	s TANTALUM CHIP 33uF 20% 10V
C3	1-163-115-00	s CERAMIC CHIP 82PF 5% 50V
C13	1-131-374-00	s TANTALUM 33uF 10% 10V
C14	1-131-374-00	s TANTALUM 33uF 10% 10V
C15	Δ1-136-534-11	s FILM 0.002uF 5% 100V
C16	1-126-287-11	s FILM 0.0047uF 5% 100V
C21	1-164-350-11	s CERAMIC 470PF 10% 1KV
C22	1-126-233-11	s ELECT 22uF 20% 35V
C23	1-163-833-00	s CERAMIC CHIP 0.068uF 25V
C24	1-131-365-00	s TANTALUM 10uF 10% 16V
C35	1-136-287-11	s FILM 0.0047uF 5% 100V
C37	1-163-037-11	s CERAMIC CHIP 0.022uF 10% 25V
C46	1-126-176-11	s ELECT 220uF 20% 10V
C47	1-124-455-00	s ELECT 100uF 20% 16V
C51	1-163-018-00	s CERAMIC CHIP 0.0056uF 5% 5
CN1	1-566-395-11	s CONNECTOR, 10P, MALE
CN2	1-566-391-11	s CONNECTOR, 12P, MALE
CN3	1-506-469-11	s CONNECTOR, 4P, MALE
CN4	1-506-470-11	s CONNECTOR, 5P, MALE
CN5	1-506-470-11	s CONNECTOR, 5P, MALE
CN6	1-506-467-11	s CONNECTOR, 2P, MALE
CN7	1-566-393-11	s CONNECTOR, 6P, MALE
CV1	1-141-370-11	s CAP. CHIP TRIMMER 50PF
D1	8-719-914-11	s DIODE HZ4ALL
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-900-95	s DIODE V096
D5	8-719-901-19	s DIODE V11N
D6	8-719-900-95	s DIODE V096
D7	8-719-104-31	s DIODE 1S2838
D8	8-719-104-31	s DIODE 1S2838
D9	8-719-800-76	s DIODE 1SS226
D10	8-719-800-76	s DIODE 1SS226
D11	8-719-104-31	s DIODE 1S2838
D12	8-719-910-75	s DIODE HZ782L
D13	8-719-104-34	s DIODE 1S2836
DL1	1-415-487-11	s DELAY LINE 140ns
IC1	Δ8-759-300-28	s IC HA11423MP
IC2	8-759-100-94	s IC UPC35862
IC3	8-759-209-57	s IC TC4569F
IC4	8-759-209-54	s IC TC4501F
L2	Δ1-459-899-11	s COIL, HORIZONTAL LINEARITY
L3	1-410-716-31	s INDUCTOR CHIP 82uH
Q1	8-729-175-72	s TRANSISTOR 2SC2757
Q2	8-729-175-72	s TRANSISTOR 2SC2757
Q3	8-729-175-72	s TRANSISTOR 2SC2757
Q4	8-729-175-72	s TRANSISTOR 2SC2757
Q5	8-729-100-68	s TRANSISTOR 2SC1623

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VF-32 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q6	8-729-105-37	s TRANSISTOR 2SC3360
Q7	8-729-100-66	s TRANSISTOR 2SC1623
Q8	8-729-119-00	s TRANSISTOR 2SK612
Q9	8-729-119-00	s TRANSISTOR 2SK612
Q10	8-729-105-37	s TRANSISTOR 2SC3360
Q11	8-729-100-66	s TRANSISTOR 2SC1623
Q12	8-729-216-22	s TRANSISTOR 2SA1162
Q13	8-729-175-72	s TRANSISTOR 2SC2757
Q14	8-729-100-66	s TRANSISTOR 2SC1623
Q15	8-729-216-22	s TRANSISTOR 2SA1162
Q16	8-729-162-43	s TRANSISTOR 2SB624-BV3
Q17	8-729-109-44	s TRANSISTOR 2SK94
Q18	8-729-216-22	s TRANSISTOR 2SA1162
R3	1-216-687-11	s METAL CHIP 33K 0.50% 1/10W
R4	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R5	1-216-644-11	s METAL CHIP 510 0.50% 1/10W
R6	1-216-644-11	s METAL CHIP 510 0.50% 1/10W
R8	1-216-644-11	s METAL CHIP 510 0.50% 1/10W
R10	1-216-657-11	s METAL CHIP 1.8K 0.50% 1/10W
R11	1-216-689-11	s METAL CHIP 39K 0.50% 1/10W
R12	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R14	1-216-637-11	s METAL CHIP 270 0.50% 1/10W
R15	1-216-671-11	s METAL CHIP 6.8K 0.50% 1/10W
R16	1-216-639-11	s METAL CHIP 330 0.50% 1/10W
R17	1-216-644-11	s METAL CHIP 510 0.50% 1/10W
R19	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R20	1-216-645-11	s METAL CHIP 560 0.50% 1/10W
R22	1-216-657-11	s METAL CHIP 1.8K 0.50% 1/10W
R23	1-216-673-11	s METAL CHIP 8.2K 0.50% 1/10W
R25	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R26	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R27	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R28	1-216-667-11	s METAL CHIP 4.7K 0.50% 1/10W
R29	1-214-520-00	s METAL 30 1% 1/8W
R32	1-216-698-11	s METAL CHIP 91K 0.50% 1/10W
R43	1-216-669-11	s METAL CHIP 5.6K 0.50% 1/10W
R46	1-215-490-00	s METAL 750K 1% 1/6W
R50	Δ1-216-085-00	s METAL CHIP 33K 5% 1/10W
R51	Δ1-216-057-00	s METAL CHIP 2.2K 5% 1/10W
R79	1-216-681-11	s METAL CHIP 18K 0.50% 1/10W
R81	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R82	1-216-683-11	s METAL CHIP 22K 0.50% 1/10W
R85	1-216-668-11	s METAL CHIP 5.1K 0.50% 1/10W
R86	1-216-693-11	s METAL CHIP 56K 0.50% 1/10W
R87	1-216-659-11	s METAL CHIP 2.2K 0.50% 1/10W
R91	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R92	1-216-627-11	s METAL CHIP 100 0.50% 1/10W
R93	1-216-644-11	s METAL CHIP 510 0.50% 1/10W
R97	1-208-259-00	s METAL 10W 10%
RV1	1-237-035-11	s RES. ADJ. METAL 5K
RV2	1-237-035-11	s RES. ADJ. METAL 5K
RV3	1-237-035-11	s RES. ADJ. METAL 5K
RV4	1-237-041-11	s RES. ADJ. METAL 500K
RV5	1-237-035-11	s RES. ADJ. METAL 5K

(VF-32 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV6	1-237-031-11	s RES. ADJ. METAL 200
RV7	1-237-032-11	s RES. ADJ. METAL 500
RV8	1-237-032-11	s RES. ADJ. METAL 500
RV9	1-237-038-11	s RES. ADJ. METAL 50K
T1	Δ1-439-419-11	s TRANSFORMER, PLYBACK
VDR1	1-806-497-00	s VARISTOR ERZ-C050K220

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

VP-24P BOARD

Ref. No. or Q'ty	Part No.	SP Description
Ipc	A-6711-992-A	o MOUNTED CIRCUIT BOARD, VP-24P
Ipc	3-724-706-01	o PLATE (VP-24), ORNAMENTAL
Ipc	3-724-753-01	o RING
Spces	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
Ipc	7-688-001-12	s # 2, M10DLB
C1	1-126-390-11	s ELECT 22uF 20% 6.3V
C2	1-126-398-11	s ELECT 4.7uF 20% 35V
C3	1-126-401-11	s ELECT 1uF 20% 50V
C4	1-126-390-11	s ELECT 22uF 20% 6.3V
C26	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V
C56	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V
C83	1-126-390-11	s ELECT 22uF 20% 6.3V
C121	1-126-392-11	s ELECT 100uF 20% 6.3V
C123	1-163-099-00	s CERAMIC CHIP 18PF 5% 50V
C126	1-126-390-11	s ELECT 22uF 20% 6.3V
C127	1-126-398-11	s ELECT 4.7uF 20% 35V
C128	1-126-390-11	s ELECT 22uF 20% 6.3V
C129	1-126-390-11	s ELECT 1uF 20% 6.3V
C149	1-126-401-11	s ELECT 1uF 20% 50V
C161	1-163-103-00	s CERAMIC CHIP 27PF 5% 50V
CM1	1-566-960-11	o CONNECTOR, 50P, MALE
D1	8-719-123-85	s DIODE 1SS304
D2	8-719-123-85	s DIODE 1SS304
D3	8-719-123-85	s DIODE 1SS304
D4	8-719-123-85	s DIODE 1SS304
FB21	1-543-309-12	s BEAD, FERRITE
FB51	1-543-309-12	s BEAD, FERRITE
FB101	1-543-309-12	s BEAD, FERRITE
IC1	8-759-112-53	s IC UPC1663G
IC2	8-759-112-53	s IC UPC1663G
IC3	8-759-977-69	s IC CXD13579
IC4	8-759-230-99	s IC TC74HC4053AF
IC5	8-759-932-14	s IC CX20030-Z
IC6	8-759-209-90	s IC TC4571P
IC7	8-759-239-34	s IC TC74HC4538AF
L21	1-410-703-21	s INDUCTOR, CHIP 6.8uH
L51	1-410-703-21	s INDUCTOR, CHIP 6.8uH
L101	1-410-706-31	s INDUCTOR, CHIP 12uH
L121	1-410-717-31	s INDUCTOR, CHIP 100uH
L122	1-410-707-21	s INDUCTOR, CHIP 15uH
L123	1-410-722-31	s INDUCTOR, CHIP 270uH
Q1	8-729-162-43	s TRANSISTOR 2SB624-BV3
Q2	8-729-905-18	s TRANSISTOR DTC144BU
Q3	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q4	8-729-117-32	s TRANSISTOR 2SC4177-L6
Q5	8-729-162-43	s TRANSISTOR 2SB624-BV3
Q8	8-729-109-44	s TRANSISTOR 2SK94
Q9	8-729-109-44	s TRANSISTOR 2SK94
Q10	8-729-109-44	s TRANSISTOR 2SK94
Q11	8-729-109-44	s TRANSISTOR 2SK94
Q12	8-729-117-72	s TRANSISTOR 2SC4178

(VP-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q13	8-729-117-72	s TRANSISTOR 2SC4178
Q14	8-729-117-72	s TRANSISTOR 2SC4178
Q15	8-729-109-44	s TRANSISTOR 2SK94
Q16	8-729-109-44	s TRANSISTOR 2SK94
Q17	8-729-109-44	s TRANSISTOR 2SK94
Q18	8-729-109-44	s TRANSISTOR 2SK94
Q19	8-729-117-72	s TRANSISTOR 2SC4178
Q20	8-729-117-72	s TRANSISTOR 2SC4178
Q21	8-729-117-72	s TRANSISTOR 2SC4178
Q22	8-729-905-12	s TRANSISTOR DTA144EU
Q23	8-729-906-33	s TRANSISTOR DTC114YU
Q25	8-729-906-33	s TRANSISTOR DTC114YU
Q26	8-729-905-18	s TRANSISTOR DTC144BU
Q27	8-729-905-18	s TRANSISTOR DTC144BU
Q28	8-729-905-12	s TRANSISTOR DTA144EU
Q29	8-729-905-18	s TRANSISTOR DTC144BU
Q30	8-729-905-18	s TRANSISTOR DTC144BU
Q31	8-729-117-72	s TRANSISTOR 2SC4178
Q32	8-729-117-72	s TRANSISTOR 2SC4178
Q33	8-729-117-72	s TRANSISTOR 2SC4178
Q34	8-729-117-72	s TRANSISTOR 2SC4178
Q35	8-729-117-72	s TRANSISTOR 2SC4178
Q36	8-729-117-72	s TRANSISTOR 2SC4178
Q37	8-729-117-72	s TRANSISTOR 2SC4178
Q38	8-729-117-72	s TRANSISTOR 2SC4178
Q39	8-729-117-72	s TRANSISTOR 2SC4178
Q40	8-729-905-18	s TRANSISTOR DTC144BU
Q41	8-729-109-44	s TRANSISTOR 2SK94
Q42	8-729-109-44	s TRANSISTOR 2SK94
Q43	8-729-109-44	s TRANSISTOR 2SK94
Q44	8-729-109-44	s TRANSISTOR 2SK94
Q45	8-729-109-44	s TRANSISTOR 2SK94
Q46	8-729-109-44	s TRANSISTOR 2SK94
Q47	8-729-109-44	s TRANSISTOR 2SK94
Q48	8-729-109-44	s TRANSISTOR 2SK94
Q51	8-729-117-72	s TRANSISTOR 2SC4178
Q52	8-729-117-72	s TRANSISTOR 2SC4178
Q53	8-729-905-12	s TRANSISTOR DTA144EU
Q54	8-729-905-18	s TRANSISTOR DTC144BU
Q55	8-729-906-33	s TRANSISTOR DTC114YU
Q56	8-729-905-18	s TRANSISTOR DTC144BU
Q57	8-729-905-12	s TRANSISTOR DTA144EU
Q58	8-729-905-18	s TRANSISTOR DTC144BU
Q59	8-729-905-18	s TRANSISTOR DTC144BU
Q60	8-729-905-12	s TRANSISTOR DTA144EU
Q61	8-729-117-72	s TRANSISTOR 2SC4178
Q62	8-729-905-18	s TRANSISTOR DTC144BU
R1	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R2	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R3	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R4	1-216-831-11	s METAL CHIP 6.8K 5% 1/16W
R5	1-216-837-11	s METAL CHIP 22K 5% 1/16W

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VP-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R6	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R7	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R8	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R9	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R21	1-216-809-11	s METAL CHIP 100 5% 1/16W
R22	1-216-809-11	s METAL CHIP 100 5% 1/16W
R23	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R24	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R25	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R26	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R27	1-216-819-11	s METAL CHIP 680 5% 1/16W
R28	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R29	1-216-813-11	s METAL CHIP 220 5% 1/16W
R30	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R31	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R32	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R33	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R34	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R37	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R38	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R39	1-216-817-11	s METAL CHIP 470 5% 1/16W
R40	1-216-817-11	s METAL CHIP 470 5% 1/16W
R41	1-216-815-11	s METAL CHIP 330 5% 1/16W
R42	1-216-817-11	s METAL CHIP 470 5% 1/16W
R43	1-216-813-11	s METAL CHIP 220 5% 1/16W
R44	1-216-807-11	s METAL CHIP 68 5% 1/16W
R45	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R46	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R47	1-216-811-11	s METAL CHIP 150 5% 1/16W
R51	1-216-809-11	s METAL CHIP 100 5% 1/16W
R52	1-216-809-11	s METAL CHIP 100 5% 1/16W
R53	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R54	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R55	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R56	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R57	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R58	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R59	1-216-813-11	s METAL CHIP 220 5% 1/16W
R60	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R61	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R62	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R63	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R64	1-216-827-11	s METAL CHIP 22K 5% 1/16W
R67	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R68	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R69	1-216-817-11	s METAL CHIP 470 5% 1/16W
R70	1-216-817-11	s METAL CHIP 470 5% 1/16W
R71	1-216-817-11	s METAL CHIP 470 5% 1/16W
R72	1-216-817-11	s METAL CHIP 470 5% 1/16W
R73	1-216-813-11	s METAL CHIP 220 5% 1/16W
R74	1-216-807-11	s METAL CHIP 68 5% 1/16W
R75	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R76	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R80	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R81	1-216-849-11	s METAL CHIP 220K 5% 1/16W

(VF-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R82	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R83	1-216-847-11	s METAL CHIP 150K 5% 1/16W
R84	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R85	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R86	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R87	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R89	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R90	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R91	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R92	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R93	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R94	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R95	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R96	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R97	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R98	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R99	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R100	1-216-809-11	s METAL CHIP 100 5% 1/16W
R101	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R102	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R103	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R104	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R105	1-216-864-11	s METAL CHIP 0-03W
R106	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R107	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R108	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R109	1-216-809-11	s METAL CHIP 100 5% 1/16W
R110	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R111	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R112	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R113	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R114	1-216-815-11	s METAL CHIP 330 5% 1/16W
R115	1-216-809-11	s METAL CHIP 100 5% 1/16W
R116	1-216-817-11	s METAL CHIP 470 5% 1/16W
R117	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R118	1-216-809-11	s METAL CHIP 100 5% 1/16W
R119	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R121	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R122	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R123	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R125	1-216-819-11	s METAL CHIP 680 5% 1/16W
R126	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R127	1-216-828-11	s METAL CHIP 3.9K 5% 1/16W
R128	1-216-829-11	s METAL CHIP 4.7K 5% 1/16W
R129	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R130	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R131	1-216-828-11	s METAL CHIP 3.9K 5% 1/16W
R132	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R133	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R134	1-216-807-11	s METAL CHIP 68 5% 1/16W
R135	1-216-823-11	s METAL CHIP 1.5K 5% 1/16W
R136	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R137	1-216-864-11	s METAL CHIP 0-03W
R141	1-216-847-11	s METAL CHIP 150K 5% 1/16W
R142	1-216-833-11	s METAL CHIP 10K 5% 1/16W

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VP-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R143	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R144	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R145	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R146	1-216-839-11	s METAL CHIP 33K 5% 1/16W
R147	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R148	1-216-827-11	s METAL CHIP 3.3K 5% 1/16W
R149	1-216-824-11	s METAL CHIP 1.8K 5% 1/16W
R150	1-216-817-11	s METAL CHIP 470 5% 1/16W
R151	1-216-817-11	s METAL CHIP 470 5% 1/16W
R152	1-216-819-11	s METAL CHIP 680 5% 1/16W
R153	1-216-847-11	s METAL CHIP 150K 5% 1/16W
R154	1-216-834-11	s METAL CHIP 12K 5% 1/16W
R155	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R156	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R157	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R158	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R159	1-216-853-11	s METAL CHIP 470K 5% 1/16W
R160	1-216-837-11	s METAL CHIP 22K 5% 1/16W
R161	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R162	1-216-825-11	s METAL CHIP 2.2K 5% 1/16W
R163	1-216-864-11	s METAL CHIP 0-0HM
R164	1-216-834-11	s METAL CHIP 12K 5% 1/16W
R165	1-216-849-11	s METAL CHIP 220K 5% 1/16W
R166	1-216-833-11	s METAL CHIP 10K 5% 1/16W
R168	1-216-813-11	s METAL CHIP 220 5% 1/16W
R171	1-216-841-11	s METAL CHIP 47K 5% 1/16W
R172	1-216-821-11	s METAL CHIP 1K 5% 1/16W
R201	1-216-819-11	s METAL CHIP 680 5% 1/16W
R202	1-216-837-11	s METAL CHIP 22K 5% 1/16W
RV21	1-230-868-11	s RES. ADJ. METAL 2.2K
RV23	1-230-868-11	s RES. ADJ. METAL 2.2K
RV25	1-230-868-11	s RES. ADJ. METAL 2.2K
RV27	1-230-868-11	s RES. ADJ. METAL 2.2K
RV51	1-230-868-11	s RES. ADJ. METAL 2.2K
RV53	1-230-868-11	s RES. ADJ. METAL 2.2K
RV55	1-230-868-11	s RES. ADJ. METAL 2.2K
RV57	1-230-868-11	s RES. ADJ. METAL 2.2K
RV101	1-230-868-11	s RES. ADJ. METAL 2.2K
RV102	1-230-868-11	s RES. ADJ. METAL 2.2K
RV141	1-230-870-11	s RES. ADJ. METAL 10K
S1	1-571-275-11	s SWITCH, SLIDE.

VR-67 BOARD

Ref. No. or Q'ty	Part No.	SP Description
Ipc	1-625-089-11	o PRINTED CIRCUIT BOARD, VR-67
R4	1-216-691-11	s METAL CHIP 47K 0.50% 1/10W
RV1	1-238-290-11	s RES. VAR. CARBON 1K
RV2	1-238-296-11	s RES. VAR. CARBON 10K
RV3	1-238-293-11	s RES. VAR. CARBON 10K
RV4	1-238-296-11	s RES. VAR. CARBON 10K

VR-70 BOARD

Ref. No. or Q'ty	Part No.	SP Description
Ipc	1-625-553-13	o PRINTED CIRCUIT BOARD, VR-70
CN1	1-506-485-11	o CONNECTOR, GP. MALE
RV1	1-230-337-11	s RES. VAR. CARBON 10K
RV2	1-230-337-11	s RES. VAR. CARBON 10K
RV3	1-228-456-00	s RES. ADJ. METAL 1K

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

VR-77 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-625-554-13 o PRINTED CIRCUIT BOARD, VR-77
1pc 1-223-165-00 s RES, ADJ, WIREWOUND 10K

FRAME

Ref. No.
or Q'ty Part No. SP Description

1-464-995-41 s CONVERTER, DC-DC (CD-89B)
1-466-158-12 s CONVERTER UNIT, DC-DC "DC/DC"
Δ1-546-086-21 s 1.5" CRT ASSY
1-940-619-11 o HARNESS, SUB (ADP)
CN8 (to PS-162 BOARD)
1-562-149-11 o HOUSING, 4P
1-564-026-00 s CONTACT, FEMALE, AWG24-30
CN018 (to PB ADAPTOR)
1-563-971-11 s CONNECTOR (R-F)
1-563-970-11 o CONTACT, FEMALE, AWG26-30
CN21 (to MB-317P board)
1-563-878-11 o HOUSING, 2DP
1-563-869-11 o CONTACT, FEMALE, AWG26-30
1-940-628-11 o HARNESS, SUB (KY)
CN1 (to KY-124 board)
1-565-129-11 o HOUSING 10P
1-565-163-11 o TERMINAL, SOLDERLESS
CN59 (to MB-317P board)
1-565-129-11 o HOUSING 10P
1-565-163-11 o TERMINAL, SOLDERLESS
1-945-970-11 s HARNESS (VF CABLE)
CN1 (to VP-32 board)
1-563-873-11 o HOUSING, 10P
1-563-869-11 o CONTACT, FEMALE, AWG26-30
CN2 (to LP-58 board)
1-565-121-11 o HOUSING, 2P
1-565-164-11 o CONTACT, FEMALE AWG26-28
CN2 (to SW-260A board)
1-565-121-11 o HOUSING, 2P
1-565-164-11 o CONTACT, FEMALE AWG26-28
8-759-947-34 s IC LM35DZ "TEMPERATURE SENSING"
C001 1-136-189-00 s FILM 0.1uF 5W 250V
CN1 (DC/DC CONVERTER)
1-562-152-11 o HOUSING, 7P
1-562-088-11 o CONTACT, FEMALE, AWG24-30
CN1 (to CN-400 board)
1-565-132-11 o HOUSING, 13P
1-565-164-11 o CONTACT, FEMALE AWG26-28
CN1 (to IP-238 board)
1-562-156-11 o HOUSING, 11P
1-563-088-11 o CONTACT, FEMALE, AWG24-30
CN1 (to LD-21 board)
1-562-151-11 o HOUSING, 6P
1-564-026-00 s CONTACT, FEMALE, AWG24-30
CN1 (to PA-120 board)
1-562-151-11 o HOUSING, 6P
1-563-088-11 o CONTACT, FEMALE, AWG24-30
CN1 (to PS-162 board)
1-543-157-00 s BRAD, FERRITE
1-562-253-00 o HOUSING, 3P
1-562-280-21 o CONTACT, FEMALE AWG24-28

Please see pages 13-52 to 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN1 (to SG-157 board)		
	1-565-123-11	o HOUSING, 4P
	1-565-164-11	o CONTACT, FEMALE, ANG26-28
CN1 (to SW-280 board)		
	1-562-150-11	o HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN1 (to SW-291 board)		
	1-562-147-11	o HOUSING, 2P
	1-564-026-00	s CONTACT, FEMALE, ANG24-30
CN2 (to CN-400 board)		
	1-565-126-11	o HOUSING, CONNECTOR 7P
	1-565-164-11	o CONTACT, FEMALE, ANG26-28
CN2 (to IF-298 board)		
	1-565-129-11	o HOUSING, 10P
	1-565-164-11	o CONTACT, FEMALE, ANG26-28
CN2 (to PS-162 board)		
	1-543-157-00	s BEAD, FERRITE
	1-562-255-00	o HOUSING, 6P
	1-562-260-21	o CONTACT, FEMALE, ANG24-28
CN2 (to SW-220 board)		
	1-562-743-11	o HOUSING, 10P
	1-563-869-11	o CONTACT, FEMALE, ANG26-30
CN2 (to TG-82P board)		
	1-562-150-21	o HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN2 (to VP-32 board)		
	1-563-869-11	o CONTACT, FEMALE, ANG26-30
	1-563-874-11	o HOUSING, 12P
CN3 (to DR-124 board)		
	1-562-154-11	o HOUSING, 8P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN3 (to PS-162 board)		
	1-562-148-11	o HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN3 (to IF-298 board)		
	1-565-133-11	o HOUSING, 14P
	1-565-164-11	o CONTACT, FEMALE, ANG26-28
CN3 (to TG-82P board)		
	1-562-148-11	o HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN3 (to VP-32 board)		
	1-562-149-11	o HOUSING, 4P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN4 (to IF-298 board)		
	1-565-133-11	o HOUSING, 14P
	1-565-164-11	o CONTACT, FEMALE, ANG26-28
CN4 (to PS-162 board)		
	1-562-148-11	o HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN4 (to TG-82P board)		
	1-562-155-11	o HOUSING, 10P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN5 (to IF-298 board)		
	1-562-153-11	o HOUSING, 8P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN5 (to PS-162 board)		
	1-562-257-00	o HOUSING, 8P
	1-562-260-21	o CONTACT, FEMALE, ANG24-28
CN6 (to TG-5 board)		
	1-569-199-11	o HOUSING, 6P
	1-569-193-21	o CONTACT, FEMALE, ANG24-30
CN6 (to VP-32 board)		
	1-562-147-11	o HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN7 (to PS-162 board)		
	1-562-252-00	o HOUSING, 2P
	1-562-260-21	o CONTACT, FEMALE
CN7 (to VP-32 board)		
	1-563-871-11	o HOUSING, 6P
	1-563-869-11	o CONTACT, FEMALE, ANG26-30
CN8 (to TG-82P board)		
	1-562-148-11	o HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN10 (to PS-162 board)		
	1-562-254-00	o HOUSING, 4P
	1-562-260-21	o CONTACT, FEMALE, ANG24-28
CN10 (to TC-48A board)		
	1-569-199-11	o HOUSING, 6P
	1-569-193-21	o CONTACT, FEMALE, ANG24-30
CN11 (to TC-48A board)		
	1-562-147-11	o HOUSING, 2P
	1-564-026-00	s CONTACT, FEMALE, ANG24-30
CN22 (to MB-317P board)		
	1-543-298-11	s BEAD, FERRITE
	1-563-869-11	o CONTACT, FEMALE, ANG26-30
	1-563-874-11	o HOUSING, 12P
CN23 (to MB-317P board)		
	1-562-148-11	o HOUSING, 3P
	1-564-026-00	s CONTACT, FEMALE, ANG24-30
CN24 (to MB-317P board)		
	1-562-150-11	o HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN25 (to MB-317P board)		
	1-562-148-11	o HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN50 (to MB-317P board)		
	1-563-875-11	o HOUSING, 14P
	1-563-869-11	o CONTACT, FEMALE, ANG26-30

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN51 (to MB-317P board)		
	1-563-875-11	o HOUSING, 14P
	1-563-869-11	o CONTACT, FEMALE, ANG26-30
CN52 (to MB-317P board)		
	1-562-151-11	o HOUSING, 6P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN53 (to MB-317P board)		
	1-562-149-11	o HOUSING, 4P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN54 (to MB-317P board)		
	1-563-876-11	o HOUSING, 16P
	1-563-869-11	o CONTACT, FEMALE, ANG26-30
CN56 (to MB-317P board)		
	1-562-147-11	o HOUSING, 2P
	1-564-026-00	s CONTACT, FEMALE, ANG24-30
CN57 (to MB-317P board)		
	1-562-150-11	o HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN58 (to MB-317P board)		
	1-563-873-11	o HOUSING, 10P
	1-563-869-11	o CONTACT, FEMALE, ANG26-30
CN60 (to MB-317P board)		
	1-562-257-00	o HOUSING, 8P
	1-562-260-21	o CONTACT, FEMALE, ANG24-28
CN61 (to MB-317P board)		
	1-562-148-11	o HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN62 (to MB-317P board)		
	1-562-149-11	o HOUSING, 4P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN62 (to MB-317P board)		
	1-562-148-11	o HOUSING, 3P
	1-562-260-21	o CONTACT, FEMALE, ANG24-28
CN001	1-565-764-11	s CONNECTOR ASSY, BNC "VIDEO OUT-2"
CN002	1-561-233-21	s CONNECTOR, 6P, FEMALE "REMOTE"
	1-543-298-11	s BEAD, FERRITE
CN004	1-564-603-11	s CONNECTOR W/TE DC SW, 4P, MALE "EXT +12V"
CN005	1-565-072-11	s CONNECTOR, 4P, FEMALE "DC OUT"
CN006	1-563-029-21	s CONNECTOR, 3P, FEMALE "CH-1"
CN007	1-563-029-21	s CONNECTOR, 3P, FEMALE "CH-2"
CN011	1-563-029-21	s CONNECTOR, 3P, FEMALE "MIC"
CN014	1-565-764-11	s CONNECTOR ASSY, BNC "VIDEO OUT-1"
CN015	1-561-781-21	s CONNECTOR, BNC, FEMALE "TC LOCK VIDEO IN"
CN016	1-561-781-11	s CONNECTOR, BNC, FEMALE "TC IN"
CN017	1-561-781-11	s CONNECTOR, BNC, FEMALE "TC OUT"
CN01	1-565-051-11	o CONNECTOR, FEMALE, 20P "VF"
CN02	1-562-221-21	s CONNECTOR, 12P, MALE "LENS"

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN10F	1-561-518-00	o HOUSING, 1LS 6P, FEMALE
	1-560-372-00	o CONTACT, ANG22-28
CN10H	1-562-855-11	o HOUSING, 1L-M 6P, MALE
	1-564-092-11	o CONTACT, 1L-M ANG22-28
CN501 (to MB-317P board)		
	1-562-150-11	o HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN502 (to MB-317P board)		
	1-562-151-11	o HOUSING, 6P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN503 (to MB-317P board)		
	1-562-147-11	o HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN504 (to MB-317P board)		
	1-562-148-11	o HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN505 (to MB-317P board)		
	1-562-152-11	o HOUSING, 7P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN506 (to MB-317P board)		
	1-562-147-11	o HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN507 (to MB-317P board)		
	1-562-147-11	o HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
CN508 (to MB-317P board)		
	1-565-128-11	o HOUSING, 9P
	1-565-164-11	o CONTACT, FEMALE, ANG26-28
CN509 (to MB-317P board)		
	1-562-147-11	o HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, ANG24-30
HD01	8-825-749-02	s HEAD, AU PPS244-2103
HD02	8-825-560-40	s HEAD, CTL RS-253-21
HD03	8-825-772-61	s HEAD, ERASE BF291-21A
MD01	8-835-308-01	s MOTOR, DC LN18-SIN1B
MD02	8-835-313-01	s MOTOR, DC U-19A
RD01	1-249-404-00	s CARBON 28 5% 1/4W
SP001	1-503-293-00	s SPEAKER
SK002	1-553-448-00	s SWITCH, TOGGLE "POWER"

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

13-4. PACKING MATERIALS AND ACCESSORIES

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6772-374-A	s BELT ASSY, SHOULDER
1pc	3-898-917-01	o BELT, SHOULDER
1pc	A-7520-314-A	o MOUNTED CIRCUIT BOARD, EX-148
1pc	X-3185-012-1	o PANEL, MAIN SWITCH ORNAMENTAL
1pc	3-724-734-01	o PANEL, MAIN SWITCH ORNAMENTAL
1pc	3-742-034-01	s RUBBER (GJ), DROP PROTECTION
1pc	3-742-035-01	o STOPPER, ORNAMENTAL PANEL
1pc	1-542-099-11	s MICROPHONE
1pc	3-707-636-01	s SCREEN ASSY, WIND (CM-BVM200)
1pc	3-725-262-01	s COVER, RAIN

13-5. OPTIONAL FIXTURES

OPTIONAL FIXTURE

Part No.	SP Description
J-6001-820-A	o DRUM ECCENTRICITY GAUGE (3)
J-6001-830-A	o DRUM ECCENTRICITY GAUGE (2)
J-6026-100-A	o RESOLUTION CHART
J-6026-130-A	o GRAY SCALE CHART
J-6029-140-A	o PATTERN BOX, PTD-500
J-6080-003-C	FWD BACK TENSION MEASUREMENT CASSETTE
J-6086-570-A	PLATE, PARALLEL
J-6152-450-A	WIRE CLEARANCE CHECK GAUGE
J-6321-500-1	TAPE GUIDE ADJUSTMENT DRIVER
J-6321-880-A	CASSETTE DUMMY COVER
J-6325-110-A	TORQUE DRIVER BIT (FOR M1.4)
J-6325-360-A	PLATNESS CHECK TOOL
J-6325-380-A	TORQUE DRIVER BIT (FOR M2)
J-6325-400-A	TORQUE DRIVER (FOR 3kg)
J-6325-530-A	DRUM ECCENTRICITY GAUGE (G)
J-6332-290-A	SERVO REMOTE CONTROL TOOL
J-6335-940-A	REC CURRENT ADJUSTMENT TOOL
J-6335-730-A	VIDEO SIGNAL INPUT BOARD
J-6335-740-A	EXTENSION HARNESS
7-732-050-20	TENSION SCALE (50g FULL SCALE)
7-732-902-00	INSPECTION MIRROR
8-960-095-85	ALIGNMENT TAPE, CR8-1B PS
8-960-096-81	ALIGNMENT TAPE, CR5-1B PS
8-960-098-37	ALIGNMENT TAPE, CR5-1A PS
8-960-096-01	ALIGNMENT TAPE, CR2-1B PS
9-911-053-00	s THICKNESS GAUGE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

SECTION 14

CHANGED PARTS

UP TO # 40022

40023 & UP

SG-152AP BOARD

IC12 8-759-200-80 s IC TC4050BF 8-759-204-93 s IC TC 506001F

TC-48AP BOARD

IC502 8-759-144-50 s IC CXD8042Q-346 8-759-146-73 s IC CXD8042Q-502

SV-97AP BOARD

C137 NOT USED 1-163-097-00 s CERAMIC CHIP 15PF 5% 50V

1P-298 BOARD

C31 NOT USED 1-135-210-11 s TANTALUM 4.7 μ F 10% 10V
 R4 1-249-437-11 s CARBON 47K 5% 1/4W 1-216-089-91 s RES, CHIP 47K 5% 1/10W
 R21 1-216-295-00 s RES, CHIP 0 5% 1/10W NOT USED
 R51 1-216-065-00 s RES, CHIP 4.7 5% 1/10W 1-216-295-00 s RES, CHIP 0 5% 1/10W

NB-317P BOARD

R133 1-216-057-00 s RES, CHIP 2.2K 5% 1/10W 1-216-063-00 s RES, CHIP 3.9K 5% 1/10W

PR-132 BOARD

C96 1-102-951-00 s CAP, CERAMIC 15PF 5% 50V 1-163-097-00 s CERAMIC CHIP 15PF 5% 50V
 C97, 98 1-102-951-00 s CAP, CERAMIC 47PF 5% 50V 1-163-243-11 s CERAMIC CHIP 47PF 5% 50V
 IC3 1-808-254-11 s IC BN-1251 1-809-236-11 s IC BN-1255
 R247 1-249-439-11 s CARBON 68K 5% 1/4W 1-216-093-00 s RES, CHIP 68K 5% 1/10W
 R248 1-247-881-00 s CARBON 120K 5% 1/4W 1-216-099-00 s RES, CHIP 120K 5% 1/10W
 R249 1-247-876-11 s CARBON 75K 5% 1/4W 1-216-094-00 s METAL 75K 5% 1/10W

VA-104 BOARD

R3 1-216-051-00 s RES, CHIP 1.2K 5% 1/10W 1-216-056-00 s RES, CHIP 2K 5% 1/10W

UP TO # 40034

40035 & UP

NB-317P BOARD

C406 1-163-251-11 s CERAMIC 100PF 5% 50V NOT USED
 Q501 8-729-100-66 s TRANSISTOR 2SC1623-L6 8-729-175-72 s TRANSISTOR 2SC2757-T33

TC-48AP BOARD

IC503 8-752-808-43 s IC CXP80116-075Q 8-752-810-17 s IC CXP80116-617Q

VA-104 BOARD

C118, 119 NOT USED 1-162-901-11 s CERAMIC 0.1 μ F 10% 50V

UP TO # 40053

40054 & UP

S6-152AP BOARD

IC14 8-759-602-78 s IC M5236L 8-759-632-07 s IC M5237L

TC-48AP BOARD

C528 1-163-239-11 s CERAMIC CHIP 33PF 5% 50V	1-163-229-11 s CERAMIC CHIP 12PF 5% 50V
C529-1-163-251-11 s CERAMIC 100PF 5% 50V	1-163-245-11 s CERAMIC 56PF 5% 50V
R506 1-216-093-11 s RES. CHIP 68K 5% 1/10W	1-216-699-11 s METAL CHIP 100K 0.5% 1/10W
R627 1-216-121-00 s RES. CHIP 1.0M 5% 1/10W	1-216-133-00 s RES. CHIP 3.5M 5% 1/10W
R628 1-216-129-00 s RES. CHIP 2.2M 5% 1/10W	1-216-133-00 s RES. CHIP 3.5M 5% 1/10W
X503 1-527-955-00 s 31.25 KHz	1-578-741-11 s 31.25KHz

UP TO # 40080

40081 & UP

IF-298 BOARD

R32 1-216-049-00 s RES. CHIP 1K 5% 1/10W	1-216-057-00 s RES. CHIP 2.2K 5% 1/10W
C32 NOT USED	1-136-153-00 s NYLAR. 0.01uF 5% 50V

UP TO # 40140

40141 & UP

PR-132 BOARD

TH1, 2, 3 1-806-627-31 s THERMISTOR, POSITIVE 1K	1-806-627-41 s THERMISTOR, POSITIVE 1K
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TC-48AP BOARD

R611, 612, 639 1-247-791-11 s CARBON 22 5% 1/4W	1-249-397-11 s CARBON 22 5% 1/4W
R641, 642 1-247-783-11 s CARBON 10 5% 1/4W	1-249-393-11 s CARBON 10 5% 1/4W

UP TO # 40199

40200 & UP

VA-104 BOARD

C1, 24, 48 1-135-161-21 s CAP. CHIP TANTALUM 22 10% 10V ...	1-135-210-11 s TANTALUM 4.7uF 10% 10V
C21, 45, 69 1-135-076-21 s CAP. CHIP TANTALUM 1.0 10% 35V ...	1-135-177-21 s TANTALUM 1uF 10% 25V
C90, 92 NOT USED	1-163-134-00 s CERAMIC CHIP 510P
C91 NOT USED	1-163-130-00 s CERAMIC CHIP 360P
C116 1-131-370-00 s CAP. TANTALUM 6.8 10% 10V	NOT USED
C117 1-131-375-00 s CAP. TANTALUM 4.7 10% 10V	NOT USED
C118, 119 1-162-901-11 s CERAMIC 0.1uF 10% 50V	NOT USED
D1 NOT USED	8-719-104-22 s DIODE 1SS123
Q1, 23 8-729-122-63 s TRANSISTOR 2SA1226	8-729-403-32 s TRANSISTOR XN6534
C2, 13, 24 8-729-122-63 s TRANSISTOR 2SA1226	8-729-403-29 s TRANSISTOR XN6435
Q3, 14, 25 8-729-216-22 s TRANSISTOR 2SA812	8-729-403-29 s TRANSISTOR XN6435
Q4, 15, 26 8-729-175-72 s TRANSISTOR 2SC2757-T33	8-729-403-29 s TRANSISTOR XN6435
Q46 8-729-122-63 s TRANSISTOR 2SA1226-B4	NOT USED
Q47 8-729-175-72 s TRANSISTOR 2SC2757-T33	NOT USED
Q51, 52, 53 NOT USED	8-729-175-72 s TRANSISTOR 2SC2757-T33

R2, 46, 92	1-216-025-00	s RES, CHIP 100 5K 1/10W	1-216-009-00	s RES, CHIP 22 5K 1/10W
R3	1-216-056-00	s RES, CHIP 2K 5K 1/10W	1-216-061-00	s RES, CHIP 3.3K 5K 1/10W
R4	1-216-645-11	s METAL CHIP 560 0.5K 1/10W	1-216-655-11	s METAL CHIP 1.5K 1K 1/10W
R5	NOT USED		1-216-643-11	s METAL CHIP 470 1K 1/10W
R7	1-216-061-00	s RES, CHIP 3.3K 5K 1/10W	NOT USED	
R8	1-216-063-00	s RES, CHIP 3.9K 5K 1/10W	1-216-644-11	s METAL CHIP 3.6K 1K 1/10W
R9	1-216-071-00	s RES, CHIP 8.2K 5K 1/10W	1-216-661-11	s METAL CHIP 2.7K 1K 1/10W
R11, 55, 101	1-216-057-00	s RES, CHIP 2.2K 5K 1/10W	1-216-673-11	s METAL CHIP 8.2K 1K 1/10W
R43, 135	1-216-099-00	s RES, CHIP 120K 5K 1/10W	NOT USED	
R47	1-216-047-00	s RES, CHIP 820 5K 1/10W	1-216-639-11	s METAL CHIP 330 1K 1/10W
R48	1-216-644-11	s METAL CHIP 510 0.5K 1/10W	1-216-639-11	s METAL CHIP 330 1K 1/10W
R49	NOT USED		1-216-642-11	s METAL CHIP 430 1K 1/10W
R51	1-216-061-00	s RES, CHIP 3.3K 5K 1/10W	1-216-655-11	s METAL CHIP 1.5K 1K 1/10W
R52	1-216-063-00	s RES, CHIP 3.9K 5K 1/10W	1-216-655-11	s METAL CHIP 1.5K 1K 1/10W
R53	1-216-071-00	s RES, CHIP 8.2K 5K 1/10W	1-216-663-11	s METAL CHIP 3.3K 1K 1/10W
R89	1-216-105-00	s RES, CHIP 220K 5K 1/10W	NOT USED	
R93	1-216-055-00	s RES, CHIP 1.8K 5K 1/10W	1-216-061-00	s RES, CHIP 3.3K 5K 1/10W
R94	1-216-637-11	s METAL CHIP 270 0.5K 1/10W	1-216-655-11	s METAL CHIP 1.5K 1K 1/10W
R95	NOT USED		1-216-639-11	s METAL CHIP 330 1K 1/10W
R97	1-216-061-00	s RES, CHIP 3.3K 5K 1/10W	NOT USED	
R98	1-216-063-00	s RES, CHIP 3.9K 5K 1/10W	1-216-662-11	s METAL CHIP 5K 1K 1/10W
R99	1-216-071-00	s RES, CHIP 8.2K 5K 1/10W	1-216-664-11	s METAL CHIP 3.6K 1K 1/10W
R184	1-216-639-11	s METAL CHIP 330 1K 1/10W	1-216-025-00	s RES, CHIP 100 5K 1/10W
R185	1-216-639-11	s METAL CHIP 330 1K 1/10W	1-216-065-00	s RES, CHIP 4.7K 5K 1/10W
R186	1-216-057-00	s RES, CHIP 2.2K 5K 1/10W	1-216-061-00	s RES, CHIP 3.3K 5K 1/10W
R187	1-216-025-00	s RES, CHIP 100 5K 1/10W	1-216-655-11	s RES, CHIP 1.5K 1K 1/10W
R188	1-216-025-00	s RES, CHIP 100 5K 1/10W	NOT USED	
R189	1-216-057-00	s RES, CHIP 2.2K 5K 1/10W	NOT USED	
R191	NOT USED		1-216-102-00	s METAL CHIP 160K 0.50K 1/10W
R192	NOT USED		1-216-107-00	s METAL CHIP 270K 0.50K 1/10W
R193	NOT USED		1-216-699-11	s METAL CHIP 100K 1K 1/10W
S2	1-571-975-31	s SWITCH, CHIP	1-572-446-21	s SWITCH, ROTARY

IP-298 BOARD

C11, 13	1-124-283-11	s ELBCT 4.7 μ F 20% 16V	1-135-216-11	s TANTALUM CHIP 10 μ F 10% 10V
C32, 33	NOT USED		1-135-216-11	s TANTALUM CHIP 10 μ F 10% 10V
IC5	8-759-150-17	s IC, CXD8154M	8-759-153-63	s IC, CXD8154M
R32	NOT USED		1-216-057-00	s RES, CHIP 2.2K 5K 1/10W
R53	1-216-106-00	s RES, CHIP 240K 5K 1/10W	1-218-761-00	s METAL CHIP 240K 0.50K 1/10W
R54, 64	1-216-114-00	s RES, CHIP 510K 5K 1/10W	1-218-769-00	s METAL CHIP 510K 0.50K 1/10W

UP TO # 40279

40280 & UP

7C-48AP BOARD

R653	NOT USED	1-247-895-00	s CARBON 470K 5K 1/10W
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VA-104 BOARD

C75	1-163-251-11	s CERAMIC 100PF 5K 50V	NOT USED
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DR-124 BOARD

C22	1-131-359-21	s CAP, TANTALUM 10 10% 10V	1-131-353-00	s CAP TANTALUM 10 10% 35V
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UP TO # 40329

40330 & UP

1B-30AP BOARD

C45	1-162-637-11	s CERAMIC, CHIP 0.47 μ F 16V	1-164-330-21	s CERAMIC 0.22 μ F 10% 16V
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SV-97AP BOARD

C137 1-163-097-00 s CERAMIC 15PF 5K 25V 1-163-109-00 s CERAMIC 47PF 5K 50V

VA-104 BOARD

R16, 60, 106 1-216-631-11 s METAL CHIP 150 0.5K 1/10W 1-216-627-91 s METAL CHIP 100 0.5K 1/10W
R11, 55, 101 1-216-673-91 s METAL CHIP 8.2K 1K 1/10W 1-216-670-91 s METAL CHIP 6.2K 1K 1/10W

UP TO # 40489

40490 & UP

AT-49A BOARD

C36 1-135-070-00 s CAP, CHIP TANTALUM 0.1 10K 35V NOT USED
IC10 8-759-906-53 s IC TL062CPS 8-759-100-94 s IC μ PC35862

VF-32 BOARD

R67 1-216-033-00 s RES, CHIP 220 5K 1/10W 1-216-031-00 s RES, CHIP 180 5K 1/10W

SG-152AP BOARD

R58 1-216-071-00 s RES, CHIP 18K 5K 1/10W 1-216-681-11 s METAL CHIP 18K 0.50K 1/10W
R59 1-216-059-00 s RES, CHIP 2.7K 5K 1/10W 1-216-661-11 s METAL CHIP 2.7K 0.50K 1/10W

UP TO # 40603

40604 & UP

DR-124 BOARD

R42, 46, 49 1-216-073-00 s RES, CHIP 10K 5K 1/10W 1-216-075-00 s RES, CHIP 12K 5K 1/10W

EN-79 BOARD

R71 1-216-655-11 s METAL CHIP 1.5K 0.5K 1/10W 1-216-653-91 s METAL CHIP 1.2K 0.5K 1/10W

IB-30AP BOARD

R121 1-216-067-00 s RES, CHIP 5.6K 5K 1/10W 1-216-075-00 s RES, CHIP 12K 5K 1/10W
R122, 123 1-216-029-00 s RES, CHIP 150 5K 1/10W 1-216-037-00 s RES, CHIP 330 5K 1/10W
R159 1-216-057-00 s RES, CHIP 2.2K 5K 1/10W 1-216-065-00 s RES, CHIP 4.7K 5K 1/10W

UP TO # 40653

40654 & UP

FRAME

CN6 (to TB-5 BOARD)

1-562-151-11 o HOUSING, 6P 1-569-199-11 o HOUSING, 6P
1-564-026-00 s CONTACT, FEMALE, AWG24-30 1-569-193-11 o CONTACT, FEMALE, AWG24-30

CN10 (to TC-48AP BOARD)

1-562-151-11 o HOUSING, 6P 1-569-199-11 o HOUSING, 6P
1-564-026-00 o CONTACT, FEMALE, AWG24-30 1-569-193-21 o CONTACT, FEMALE, AWG24-30